

LOWER CHURCHILL PROJECT BIDDER SELECTION AND <u>PRELIMINARY</u> AWARD RECOMMENDATION CT0327 - CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE

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LOWER CHURCHILL PROJECT BIDDER SELECTION AND <u>PRELIMINARY</u> AWARD RECOMMENDATION CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE



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1.0 PURPOSE AND BACKGROUND

The purpose of this report is two-fold:

- Details the Bidder Selection Process and Evaluation Results undertaken by the Lower Churchill Management Company (LCMC) as part of the Package CT0327 – Construction of 350kV HVdc Transmission Line; and
- 2. Provides a <u>Preliminary</u> Award Recommendation recommending the award of the entire scope to Valard Construction LP, a Quanta Services company.

With the approval of this **Bidder Selection and Preliminary Award Recommendation**, LCMC will progress towards the conclusion of the final negotiations of the formal agreement; including the execution of a Limited Notice to Proceed (LNTP) by mid-April in order to mobilize the early infrastructure (i.e. camps) required to support the clearing works planned for a mid-June 2014 start.

It should be noted that the information from this process has been used to support the confirmation of the contracting strategy and packaging of the entire 1080km of 350 kV HVdc transmission line extending from Muskrat Falls to Soldier's Pond.

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2.0 SCOPE OF WORK

At Decision Gate 3 the construction of the 1080 km HVdc line was broken down into two (2) sections and three (3) separate packages, namely:

- Package CT0327 is for the clearing and construction of Section 1 of the HVdc Transmission Line;
- Package CT0345 is for the clearing of Section 2 of the HVdc Transmission Line; and
- Package CT0346 is for the construction of Section 2 of the HVdc Transmission Line.

Note: PCN-0230 subsequently repackaged all the scope of these packages under CT0327. This contract packaging strategy change builds upon lessons learned from the HVac scope, wherein the interface risk for the ROW clearing is transferred to the TL contractor. Further it was clearly identified that separation of the scope leads duplication of access construction effort.

Section 1 consists of approximately 610km of 350kV HVdc transmission line, and is broken into three (3) segments, with a strategy envisioned wherein bidders will be allowed to bid on a single segment or any combination of segments. At the DG3 planning phase it was anticipated that this RFP structure would attract the most interest and competition within the marketplace by allowing participation by companies that are unable to build the entire length of Section 1.

Details of the three (3) segments within Section 1 are as follows:

- Segment 1 From Muskrat Falls, Labrador to 250 km along the path of the proposed transmission line (i.e. the 250 km point).
- Segment 2 From the 250 km point to the Straight of Belle Isle, Labrador, approximately 147 km. This Segment also includes an 18 km wood pole electrode line, which starts at the HVdc line near Forteau and ends at L'Anse-au-Diable in Labrador.
- Segment 3 From the Newfoundland side of the Straight of Belle Isle to the southern end of the Long Range Mountains, approximately 227 km.

The northwest portion of Segment 1 from Muskrat Falls to the 140 km point parallels the Trans-Labrador Highway with some highway crossings. The southeastern part from the 140 km point to the 230 km point has very little access and has major river crossings. As such, clearing and access on Segment 1 will continue while construction starts. There may be an opportunity for the contractor to use the main camp at Muskrat Falls during work in the northern part of this segment.

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Segment 2, the eastern Labrador segment from the 239 km point to SOBI near Forteau is approximately 145 km. This segment will require the construction of a significant access road in the ROW and additional bypass roads to reach remote accommodation site(s). Mountains for approximately 40 km may, depending on the contractor's selected work method, require the use of heavy lift helicopters for transporting personnel, equipment and towers setting.

Segment 3, the Long Range Mountains segment, starts at SOBI near Shoal Cove and is 227 km in length. The route will be subject to coastal weather conditions, large areas of bog, rolling hills of rocky terrain, and is dotted by various small communities. Roads and trails frequently intersect the route but access to individual tower sites will vary considerably. Helicopter clearing and construction is also expected in certain areas of this segment.

Slow progress can be expected in these three segments, due to the terrain, remoteness and the lack of access with schedule time allocated for the construction of major access. A sufficient time period for construction is being provided for this package and in case of a schedule issue we can count on an extra winter before the commissioning of the entire HVdc line.

Access will be the major difficulty faced by the Contractors resulting in a non-linear clearing and construction progress. Many areas will require frozen conditions for travel over wet areas and to reduce/minimize environmental impacts. As early as possible, it will be important to recognize individual problem areas and develop specific solutions such as road- work, bridges, ice bridges and/or the use of helicopters to transport men, equipment and materials.

Details of the two (2) segments within Section 2 are as follows:

- Segment 4 From southern end of the Long-Range Mountain to Clarenville, approximate length is 291 km.
- Segment 5 From Clarenville to Soldiers Pond, approximate length is 178 km.

In much of Segment 4, the line route is at some distance from the Trans-Canada Highway (TCH) but the area has seen considerable logging activity and some mining. There are also two areas that parallel existing NLH transmission line routes. The result is a network of existing trails that provide access to most areas.

The Segment 5 line route closely parallels the TCH and passes through several populated areas with close proximity or crossing private property. An extensive network of highways, roads and trails will provide adequate access. The entire line route in this segment is paralleled with one or two existing transmission lines. There are also six crossings of existing transmission lines of various voltages. These hazards will be mitigated through engineering and construction methods. The construction methods and sequencing of installation work will be coordinated

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with the outage availability and coordinating with the owners of the existing lines. For Segments 4 and 5 it will be important to take advantage of the lead-time prior to construction to complete possible geotechnical work and to address stakeholder concerns as this area of the line is in more populated areas compared to the first three segments.

The HVdc component of the Labrador-Island Link Project is a large transmission construction project when compared to other current transmission works in North America, with a total of nearly 1080km of 350kV overhead transmission line to be constructed. The magnitude of the work to be done, combined with geographical challenges and constraints and weather restrictions, emphasizes the requirement for solid construction planning to ensure maximum availability and utilization of work fronts.

Package CT0327 follows and was designed to build upon the learnings from the initial construction package, namely Package CT0319 – Construction of HVac Transmission Lines (MF to CF). The complexity of the HVdc transmission line scope when compared to the HVac scope leads to an increased hurdle when it comes to contractor capability and capacity. Table 1.0 includes a comparative summary of the key attributes of both scopes.

Table 1: Attribute Comparison – HVac and HVdc Transmission Lines

Attribute	LTA 315 kV HVac TL	LIL 350 kV HVdc TL
Length and Location	Two 247 km lines paralleling existing 138 kV CF to HVGB line	Single 1080 km line extending from Muskrat Falls to Soldier's Pond in the interior of Labrador
Right-of-Way Clearing	Separate package – ~2500 Ha	Included in scope – ~6200 Ha
Terrain	Flat with some rolling hills Localized wet areas	Encompasses Long Range Mtns, mountains in lower Labrador, crossing 3 major rivers in Labrador, significant bog and wet terrain
Existing Access	Fair to Good	Remote and Difficult
Tower Size	12,500 MT with each tower ~ 7 MT	35,000 MT in total with towers range in size with heights of up 220ft
Tower Installation Technique	Mobile/Track Crane	Mobile/Track Crane and Air Crane
Conductor Size	Standard / typical Drake conductor 230kV lines by NLH	Extremely large – largest single conductor ever pulled in Canada
Difficulty	Fair	Extremely difficult

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3.0 BIDDER SELECTION PROCESS

The Bidder Selection Process includes the assessment of the five (5) key areas.

- 1. Contractor Capability
- 2. Contractor Capacity
- 3. Marketplace Considerations
- 4. Execution Risk Considerations
- 5. Lessons Learned from previous Bid Events or Contracts

To assess these five (5) key areas, the Bidder Selection Process for the HVdc Transmission Line was designed to comprise of two (2) separate screening phases, specifically Phase I and Phase II. The intention of this advanced screening process was designed in order to validate the overall contracting strategy for the HVdc line as was established prior to Decision Gate 3 and documented in Project's Overarching Contracting Strategy, reference document no. LCP-PT-MD-0000-PM-ST-0002-01 Rev B1.

As such, Phase I was designed as a typical pre-qualification process and potential bidders for screening in Phase II. Phase II was timed to commence during the later stages of CT0319 contracting, thus providing an opportunity to gain insights into the both the interest and capabilities of the potential applicants as well as re-assess market trends. The general timeline for both Phases was as follows:

Phase I: 1-Oct-2012 to 31-Mar-2013

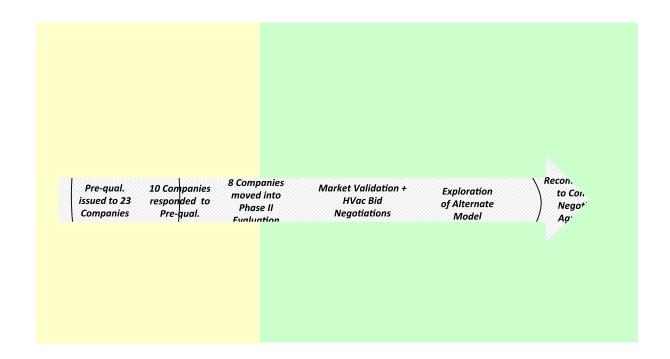
Phase II: 1-Apr-2013 to 31-Jan-2014

Phase I of the Bidder Selection Process commenced with an Application for Bidder Selection Package under the umbrella of Package CT0327 being issued to twenty-three (23) targeted companies on 06-Nov-2012 and closed on 20-Dec-2012. Ten (10) applications were received and were evaluated in accordance with the criteria and procedures established in the Bidder Selection Evaluation Plan. Applicants who were previously approved for CT0319 – Construction of 315kV HVac Transmission Line were only required to provide the technical questionnaire, but in some instances, clarification questions were issued to address missing information.

Phase II of the process commenced following the conclusion of Phase I screening and concurrence with the evaluation of bids received for CT0319 — Construction of HVac Transmission Lines (MF to CF). It was timed to conclude towards the end of 2013 in time to issue a RFP and award a contract for a mid-2014 construction start.

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The following figure illustrates this Two-Phase Process and its associated general timelines.



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4.0 BIDDER SELECTION: PHASE I SCREENING

4.1 PHASE I SCREENING CRITERIA

In Phase I the qualifications of each Applicant were evaluated according to the following categories:

- Technical Capability
- Commercial Fitness
- Health & Safety Management Systems
- Environmental Compliance
- Quality Management Systems

The Phase I evaluation team members were as follows:

Evaluation Criteria	<u>Representative</u>
Commercial	Micah Sze
Technical	Keenan Healey
Health & Safety	William Bishop
Environmental	Lesley Reid
Quality	Ken Morrison

An overall score was calculated based on the following weightings for each of the five categories:

- 1. Commercial = 25%
- 2. Technical = 30%
- 3. Health & Safety = 15%
- 4. Environmental = 10%
- 5. Quality = 20%.

Applicants must achieve a Health & Safety score of \geq 70%, an Environmental score of \geq 60%, and a Quality score \geq 60% in order to qualify as a potential Bidder.

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4.2 PHASE I APPLICANT LIST AND RESPONSES

An Application for Bidder Selection package was issued on 06-Nov-2012 and closed on 20-Dec-2012 to the targeted companies listed in Table 2.

Table 2: Target Companies for Application for Bidder Selection Package

#	Applicant Name	Application Received	Approved For CT0319	Comments
1	Barnard Construction	Yes	No	Submitted App (New)
2	EC Source	Yes	No	Submitted App (JV)
3	Henkels & McCoy	No	No	No Response
4	International Line Builders	No	No	Declined
5	Kenney Construction	Yes	No	Submitted App (New)
6	McGregor Construction	No	No	Declined
7	Michels Construction	No	No	Declined
8	MYR Group (Sturgeon Electric)	No	No	Declined
9	Parsons Brinkerhoff	No	No	Declined
10	Pike Electric	No	No	Declined
11	United Power Contractors	No	No	Declined
12	Wilson Utility Construction	No	No	Declined
13	Abengoa T&D	Yes	Yes	Submitted App
14	Flatiron-Cobra	No	Yes	Declined
15	Innu-Kiewit Constructors	Yes	Yes	Submitted App
16	Isolux Ingerieria	Yes	Yes	Submitted App
17	RS Line Contractor Co. Ltd	Yes	Yes	Submitted App (JV)
18	Valard Construction	Yes	Yes	Submitted App
19	PowerTel Utilities Contractors	Yes	Yes	Submitted App
20	Thirau Ltd	No	Yes	No Response
21	GLR	No	Yes	No Response
22	Emera Utility Services	Yes	Yes	Submitted App
23	Transelec-Arno	Yes	Yes	Submitted App

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4.3 PHASE I SCREENING RESULTS

From Phase I Screening, the following Applicants were recommended to move into Phase II screening for further exploration:

- Abengoa T&D / Inabensa
- Barnard
- Emera Utility Services
- Innu-Kiewit Constructors
- Isolux Ingerieria
- Kenny Construction
- RS Line / EC Source
- Valard Construction

The following Applicants were screened out of Phase I process:

- PowerTel Utilities Contractors
- Transelec-Arno

4.4 NON-RESPONSIVE APPLICANTS/DECLINED APPLICATIONS

Henkels & McCoy

Multiple attempts were made to contact Henkels & McCoy. Jim Dillahunty, Regional Vice President, left a voicemail indicating that he had received the Application for Bidder Selection and was looking internally for the proper point of contact. Two follow up calls were made. Jim's secretary confirmed that she followed up with Jim, but ultimately Henkels & McCoy did not submit an application.

International Line Builders Inc.

Marla Jordan acknowledged by voicemail that she received the Application. However, International Line Builders did not submit an application.

McGregor Construction

Brett Smith from McGregor Construction acknowledged that they received the Application. The company has been acquired by Quanta Services and they indicated that they would submit an application through Valard Construction.

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Michels Construction

Michels initially indicated that they were interested in the project. However, they later sent an email declining the application process due to the remote location of the project.

MYR Group (Sturgeon Electric)

John Fluss confirmed by telephone that he had received the Application but would not be submitting an application, as they had a large backlog of projects and were not interested in any projects outside of the United States (at the time being).

Parsons Brinkerhoff

Beth DeAngelo declined to submit an application because they could not perform the construction, but would be interested in any engineering or program management opportunities.

Pike Electric

David McDuffie sent an email on behalf of Pike Electric of North Carolina declining to submit an application; no reason was provided in the email. However, it appeared that they had considered the Work as two other people (Matthew Fisher and Mark Jennette) were cc'd on the email.

United Power Contractors

Andy Canales left a voicemail thanking LCMC for the opportunity to submit an application; however, UPC was not looking to bid on any projects outside of the United States.

Wilson Utility Contractors

Carmen Reed acknowledged receipt of the application; however, after further review, Wilson representatives determined that CT0327 conflicted with another project. In addition, their current backlog of projects would also be a barrier for them to competitively bid.

Flatiron-Cobra

Even though Flatiron-Cobra had been approved to bid on CT0319, Flatiron indicated that they were more interested in other RFPs and wanted to be upfront with that information, and subsequently did not submit an application.

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Thirau

An email and voicemail was left for Alain Gagne (with no response). Thirau did not submit an application for CT0319.

GLR

An email and voicemail was left for Martin Chagnon (with no response). GLR declined to bid on CT0319, indicating that they had just been granted a 110km 735kV line project and were unable to start another big contract.

4.5 PASSING APPLICANTS

The following Applicants have successfully passed the commercial, technical, environmental, quality, and health & safety review and were moved into Phase II of the Bidder Selection Process:

- Abengoa / Inabensa
- Barnard Canada
- Emera Utility Services
- Isolux Corsan
- Kenny Construction Company
- Kiewit
- RS Line / EC Source
- Valard Construction

The following provides a synopsis of the capabilities of each of these applicants:

Abengoa / Inabensa

Abengoa T&D is based in Arizona and Inabensa is based in Seville, Spain. Both entities are subsidiaries of the parent company Abengoa who according to ENR is globally the largest transmission line constructor.

For the purpose of the HVdc scope, it is expected that both entities would form a consortium with 50/50 participation upon an award. Abengoa T&D was an approved bidder for CT0319. Abengoa is a major player in the industry with an impressive work history, including HVac project experience with lines almost 1000 km long, and are the only Applicant to have significant HVdc experience – a 2412 km, 600 HVdc, bipole line with a 2282 AAC conductor. Abengoa has not undertaken any transmission projects in North America, rather has



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concentrated their business towards concessions and EPC contracts for large renewal projects, including solar projects. Unlike some of their activities in South America and Europe where they self-perform line construction, their business model in North America is predicated upon establishing themselves in the T&D business as a large EPC or general contractor, using local firms as subcontractors to construct the line.

It should be noted that Abengoa is one of three applicants who currently owns the stringing equipment required for the large conductor planned for the HVdc line.

Barnard Canada

Barnard Canada is a major civil contractor with an impressive number of contracts including linear infrastructure projects; however have minimal transmission line experience. Barnard's business model for the HVdc line is to act as a large General Contractor and engage subcontractors to undertake the field construction scope. However, Barnard's lines subcontractor, Powertel, lacks lattice tower experience.

Barnard has a strong financial capability and is prepared to bid up to \$400M alone, and up to \$1B with a pre-qualified Joint Venture. They have indicated that their bonding capacity could cover that range as well.

Emera Utility Services

Emera Utility Services was an approved bidder for one (1) segment on CT0319. Historically Emera has performed many smaller projects and has strong Canadian utility experience with cold weather and some helicopter experience. Emera's application was given strong scores (≥75%) by the Technical, Health & Safety, and Environmental reviewers. Emera has not performed any projects of the scale of this project and has limited experience with lattice towers within the last ten years.

Isolux Corsan

Isolux Corsan was an approved bidder for CT0319. Isolux Corsan is based in Madrid, Spain, but has an office in Austin, Texas. Isolux Corsan have a business model that is very similar that or Abengoa, one where they are heavily engaged in both Power Concessions and the EPC business.

Isolux Corsan has undertaken some very large transmission projects; three of the four projects listed are greater than or equal to Section 1, with one project 1200 km in length. As the Isolux



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pre-qualification package was very generic it is difficult to ascertain their capability to undertake the entire DC scope, however given their global EPC and TL capability and financial capacity, they should be further investigated as part of a Phase II assessment.

Kiewit

Kiewit is a major general contractor with a tremendous amount of Canadian northern construction experience. Further, they have some relevant, but limited, line construction experience. Kiewit indicated that they would like to do the complete Section 1. However, the longest similar line they constructed was 217 km, so 610 km would be pushing new boundaries, but with their vast construction capability they are considered to be capable of undertaking Section 1, from a technical evaluation perspective. Innu-Kiewit Constructors was an approved bidder for CT0319. However, they declined to bid on CT0319 due to the number of bidders invited to participate on CT0319. They have not provided a copy of their financial statements, but have indicated that they would provide them upon execution of a confidentiality agreement.

Kenny Construction

Kenny Construction Company (KCC) is a Chicago-based general contractor with decent projects experience listed. They appear to have experience building access in mountainous areas as a general contractor. However, they are a general contractor and would need to team up with a line contractor. KCC has listed Valard as a subcontractor, but it is unclear if they have had any discussions with Valard. KCC has passed the technical prequalification, based upon their past experience as a construction management firm rather than an actual line constructor, but their lines contractor would need to be evaluated carefully during Phase II screening.

RS Line / EC Source

Initially EC Source sent an email indicating that they would partner with RS Line. Their application was also received with RS Line's application in the same email. RS Line is based in Alberta and is owned by the parent company, Remcon Ltd, which is based in Saskatchewan. EC Source is based in Arizona and is owned by the parent company MasTec, which is also based in the United States. EC Source appears to have some relevant transmission line project experience and even has a small fleet of helicopters used for construction. EC Source also has experience constructing lines in mountainous terrain. RS Line is a known major Canadian lines contractor, with some 900 employees, currently engaged in Altalink's WATL transmission project. RS Line is one of three applicants who currently own the proper stringing equipment required for the large DC conductor.

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Valard Construction

Valard Construction is a subsidiary of Quanta Services (acquired in October 2010). Valard was an approved bidder for CT0319. Valard is a well-known major Canadian Lines Contractor who could do the full Scope of Work. Valard is one of three applicants who currently owns the proper stringing equipment required for the large DC conductor.

4.6 APPLICANTS FAILING TO QUALIFY / NOT RECOMMENDED

Transelec-Arno

Transelec Arno is a small Quebec-based company that has relevant northern Canadian construction experience. However they lack experience or the capability for building lines exceeding 100 km, given their small ~100 person organization. Their low technical score is not necessarily a reflection on their technical abilities but a reflection of limited answers. Transelec-Arno failed to provide information in English and was non-responsive when asked for additional supporting documents. As a result, this company failed the safety evaluation. Transelec-Arno would be a better fit as a subcontractor, assuming that they would follow the prime contractor's safety procedures and systems.

PowerTel

Powertel, based in Whitefish, ON, has relevant transmission line construction experience and an impressive fleet of tracked vehicles. However, PowerTel lacks significant lattice tower experience or has not built large projects in the past. Further, they lack the financial capability to take on a single segment, as their bonding capacity appears to be maxed out at \$40M. PowerTel was acceptable to the Quality and Health & Safety reviewers. However, PowerTel did not provide the supporting Environmental documentation to achieve a passing score. PowerTel would be a better fit as a subcontractor, but their environmental systems would need to be carefully evaluated beforehand.

4.7 RECOMMENDATIONS FROM PHASE I SCREENING

The following Applicants passed Phase I screening for a <u>single segment</u> and are to be further explored in the Phase II screening process.

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Barnard Canada

Based on Barnard's application, it is recommended to limit their work to one (1) segment, unless they propose a more experienced line constructor. With the proper lines subcontractor Barnard could be a major asset with their excellent construction experience.

Emera Utility Services

Although Emera has performed a lot of projects and has relevant Canadian utility experience with cold weather and helicopter construction, they have not performed any projects of this scale. In addition, Emera has limited experience with lattice towers. Based on this information, it is recommended that Emera be limited to one (1) segment.

Kiewit

Although Kiewit is a major general contractor with a tremendous amount of Canadian northern construction experience, the longest line that they have completed is 217km. Kiewit indicated that the parent company would not provide a parent guarantee and did not disclose the subsidiary's financial information. Without being able to assess the financial stability of this division of Kiewit, they are only recommended for one (1) segment. However, if their proposal demonstrates an ability to finance more than one segment then it may be possible to remove this constraint.

Kenny Construction Company

KCC appears to have relevant project experience and has been very successful as a General Contractor, in particular their experience on the Trail project in Pennsylvania, that is consistent with the requirements of this Scope of Work. However, without knowing who their line contractor will be, at best they would be able to undertake is one (1) segment as a general contractor. As such we are cautious about their capability; however they should be further assessed during the Phase II screening process.

The following Applicants passed Phase I screening for <u>all of Section 1</u> and are to be further explored in the Phase II screening process.

Abengoa / Inabensa

Abengoa is a major player in the industry with an impressive work history both for AC and DC transmission lines. Their environmental score indicates that their experience with environmental compliance may be weak and should be carefully evaluated. Key uncertainties relate to their execution model in the North American market and use of subcontractors.

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Isolux Corsan

Isolux Corsan has performed some large transmission projects outside of North America, larger in scope than this project and therefore could in theory perform the full Scope of Work. Key uncertainties relate to their execution model in the North American market and use of subcontractors.

RS Line / EC Source

RS Line is a known major Canadian lines contractor and EC Source is known in the United States. Based upon the Phase I screening, it is viewed that both companies should be able to take on the full Scope of Work.

Valard Construction

Valard Construction is a subsidiary of Quanta Services and is a known major Canadian Lines Contractor who could perform the full Scope of Work. Their quality score, however, was low and should be carefully evaluated prior to any award.

The following Applicants are conditionally recommended as Subcontractors:

Both Transelec-Arno and PowerTel were responsive to the Application for Bidder Selection process, but did not meet the requirements for CT0327 due to weaknesses in their procedures and systems (as described under Section 6.3). Further, given the perceived need to attract skilled labour for the Project, it is recommended that after the RFP is released, the Contract Administrator notify these two companies, directing them to the list of Approved Bidders, in hopes that they become potential subcontractors.

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5.0 BIDDER SELECTION: PHASE II SCREENING

5.1 PHASE II SCREENING PROCESS

With strong consideration of the complexity of the HVdc transmission line construction program, the Project Team defined a number of key attributes that any pre-qualified contractor selected for the bid list should have. These are:

- Technical depth and breadth
- Winter construction and remote access experience and capability
- Proficient in helicopter construction techniques
- Ability to be self-reliant in remote regions
- Access to an experienced labor pool
- Stringing experience with very large conductor
- ROW clearing and access management capacity
- Financial capability to finance the work (working cash flow)
- Ability to provide an adequate level of performance security

5.2 APPLICANTS FOR PHASE II SCREENING

As indicated in Section 4.5, the following Applicants were recommended to move into Phase II screening for further exploration:

- Abengoa T&D / Inabensa
- Barnard
- Emera Utility Services
- Innu-Kiewit Constructors
- Isolux Ingerieria
- Kenny Construction
- RS Line / EC Source
- Valard Construction

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5.3 OBSERVATIONS FROM CT0319 EVALUATION

The Request for Proposals (RFP) for CT0319 — Construction of 315kV HVac Transmission Line: Muskrat Falls to Churchill Falls was issued on 28-Sep-2012. Of the eleven (11) bidders invited, responses received from four (4):

- Abengoa / Inabensa
- Emera Utility Services
- Isolux Corsan
- Valard Construction

Of these four (4) bidders, Emera Uility Services bid on only 125km of line due to capacity, while both them and Isolux Corsan were rejected due to price that was twice that of the other bidders. Of the remaining two (2), Abengoa/Inabensa was evaluated as having an unacceptable execution plan.

A summary of the findings from the CT0319 evaluation is provided below, while further detail is contained in the Bid Award and Recommendation for CT0319.

Abengoa

Abengoa was shortlisted for detailed negotiations during CT0319; however their proposal gave LCMC many concerns. The following details both the Strengths and Challenges of the Abengoa proposal.

In summary, Abengoa did not present an execution plan that demonstrated that they truly appreciated the work, or were capable of organizing themselves to undertake the work. Specifically, Abengoa planned to subcontract approximately two-thirds of the scope, while they did not identify their selected subcontractors due in part to the inability to obtain reasonable pricing. This is seen as a fatal flaw for the scope of this complexity and location.

Strengths

- Bid all possible combinations
- All Agreement Article issues were resolved
- Based upon their track record outside of North America, the scope was within their general capability
- Appeared to listen to our concerns and be willing to address them (evident from our last meeting held on 1-Aug-2013)
- Agreed to make changes to the scope in an attempt to lower the price



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Challenges

- Proposal was generic i.e. it lacked site-specific considerations. Despite repeated requests to specifics on how Abengoa would undertake the work, in particular foundations where they proposed to use a local subcontractor (to be named). As a general statement Abengoa could not produce an Execution Plan that was scope or site specific. This was considered a fatal flaw.
- Execution plan was heavily reliant on subcontractors (68% of contract value was subcontracted), most of whom Abengoa had not had previous working experiences
- Showed uncertainty when asked to think outside the box when developing execution plan
- Did not convince LCMC that they could adequately transfer their global capability to achieve success in cold Canadian environment
- High number of labour hours across all activities
- Allowed for no work during peak winter months
- Foundations complete misalignment on resources for the work they indicated 15 crews, each with 17 workers, but yet only installing 2 foundations per day. Presentations always referenced truck cranes and rubber tire backhoes leaving us suspect of the site specificity of their proposal.
- Appeared unsure about the access plan (note what was presented was trivial)
- Bid was higher than our budgeted amount
- Came forth with minimal technical or execution options that could reduce cost
- Abengoa totally reliant on IBEW for sourcing of labor big risk given TL activity in N.
 America
- Familiarization with the Canadian market was weak and were ill equipped to answer specific questions
- Achieved a low score in Health and Safety (lowest of four bids) see attached
- Low score in Provincial Benefits
- Labour availability was an identified risk

Emera Utility Services

Emera bid only one section (or 125km) of the MF to CF line, indicating that they did not have the capacity to take on both sections, but preferred to have the Eastern section if they were awarded. Although PowerTel did not submit a proposal, they were proposed as Emera's subcontractor for the line construction.

Emera's execution plan was predicated upon construction only during non-winter months, which in the opinion of the evaluation team was a fundamental flaw given that winter months afford much easier access to remote and normally inaccessible areas.



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In addition to the concerns re Emera's execution plan, due to the fact that their normalized price was approximately 150% that of either Abengoa or Valard, Emera were not short-listed for detailed clarification discussions.

Isolux Corsan

Isolux submitted a proposal for both the Eastern and Western sections of the line. Overall, Isolux has provided a proposal that is very generic in nature. They have provided an organizational chart and resource loading that is adequate with the project's expectations, however it seems that nearly all resources are sub-contracted out. In short, technically Isolux scored the lowest out of the four (4) bidders.

Isolux Corsan's normalized price was highest of all four (4) bidders and more than double that of either of Abengoa or Valard, it was decided not to shortlist them for further clarification discussions.

Although their proposal was not competitive, Isolux were invited to St. John's on 19-Apr-2013 for LCMC to understand what was driving their proposal price. This meeting revealed that Isolux viewed the number of unknowns in the area re labor, logistics and weather as key risk areas that were driving their price proposal.

Valard Construction

Valard Construction was the successful bidder under CT0319 providing both the best price and technical execution plan for the work. In short, their proposal was substantially ahead of the other three (3).

5.4 LESSONS LEARNED FROM CT0319

From the bid and negotiation process for CT0319 a number of key lessons learned were discovered which influence the contracting strategy for the HVdc transmission line. These were:

- Few players have the capability or risk appetite to take on large-scale, remote projects
- International contractors generally tend to have a business model which includes subcontracting a greater portion of the work to local contractors, which tends to be cost prohibitive
 - Contrary to this, Valard self-performs the entire scope

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- International contractors presented generic execution plans which have inherent risks
 - Limited depth presented by either of Abengoa or Isolux-Corsan
- Selected contractor offered significant cost reduction opportunities
 - Value engineering and constructability input
- Only one entity demonstrated the capability to undertake the work, planning to almost exclusively self-perform thus removing risk
- Splitting access and clearing from construction clearly inserts completion risk into execution, thus the adjustment to CT0327 contracting strategy

5.5 MARKETPLACE ISSUES AND TRENDS

From this bidder selection process that has spanned approximately 18 months, a number of marketplace issues and trends have been observed that are influencing the recommended bidder list for the construction of the HVdc transmission line. In summary, the key points are:

- All potential market players were engaged in HVac EOI
 - Extensive pre-qualification process and eventual bid list that resulted in only four (4) bids, from which two were deemed suitable for shortlisting.
- Few companies have the breadth and depth of resources to handle segments of this work, let alone the entire scope
 - 2 major line contractors in Canada Valard and RS Line
 - Most US-based and international contractors do not have experience working in remote regions or appreciate how to construct transmission lines during winter months, rather look to seasonal programs.
- Significant contactor market consolidation in last 5 years
 - Both within Canada and US
 - Quanta has the largest electric utility contractor workforce in North America; further is the leading transmission and distribution contractor in Canada
- Difficult to attract US entrants into NL given buoyant renewables and rebuild market in US

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- Canadian market is very busy, however current projects are drawing to a close in late 2014
 - BC and Alberta projects are coming to a close
 - No significant scope on radar within Quebec
- Major players will likely be consumed by pending projects
 - Manitoba Hydro's BiPole III 1400km of 500kV HVdc
- ROW clearing largely subcontracted
 - Required scope for HVdc would consume all local capacity + more
- Required labor is not available from union hall either provincially or nationally, but the pool of required labour is largely employed by a few large contractors.
 - Working in union (IBEW, CUSW) and non-union settings
 - Significant wage pressure (Alberta 14% increase in 2013)
- Kiewit has questioned the viability of walk-to-walk IBEW agreement for Transmission line construction in Newfoundland and Labrador.
- It is proving very difficult by all utilities in Canada to find qualified contractors and qualified owner staff to manage those contractors, thereby pushing folks to larger packages in some instances.

Phase II Evaluation Conclusions (Post CT0319)Abengoa

LCMC met with Abengoa on 28-Jan-2014 on its request to be debriefed on the CT0319 bid. Senior executives of the Abengoa team, including Jim Corboy, Enrique Barreiro, Javier Ramirez, and Fernando Inostroza, attended this meeting.

Abengoa confirmed that the civil works (access and foundations) was a key risk area for them and that they were unable to source reasonable prices from local subcontractors, hence decided to bid on their strength only. Abengoa also confirmed that their general business strategy is to act as the General Contractor or EPC contractor and to partner with local subcontractors rather than acquire or develop specialized capability that may be required for a particular jurisdiction. This model provides great concern for LCMC in this current market where qualified Transmission contractors are very difficult to find. In the US, Abengoa's transmission activity is centered on small interties that are required as part of a larger renewable plant (e.g. solar) that they are constructing under a concession framework.

Based on the fact that Abengoa's strategy had not changed and for all of the reasons outlined in Section 5.3,the LCMC team had and still has great concerns about Abengoa's ability to execute in this jurisdiction.

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MasTec (EC Source) / RS Line

On 7-Feb-2014 LCMC met with MasTec/EC Source in St. John's to review their capabilities with respect to bidding on the HVdc transmission line. RS Line / Forbes Brothers was scheduled to participate in this meeting, however MasTec officials indicated that RS Line declined to attend due to fact that they "are still discussing the structure of our relationship."

EC Source is now owned by Mastec, a company of 14,000 employees founded in the telecommunications sector in the mid-1970's. They have been transmission line business, largely using an EPC model, since 2009. They have undertaken projects up to 100 miles long in the US, but never in Canada. In the US they largely self-perform, however plans to use a subcontract model in Canada. Other key observations include:

- EC Source does not have any arrangements with an actual line contractor
- Considers themselves a "Program Management Entity" offering PM and CM services
- For HVdc line, would subcontract all of access, ROW clearing, civil works, tower erection and camps. EC Source have line stringing equipment, but it was very uncertain whether it was either suitable for our conductor or if they planned to mobilize it to Canada.
- Proposed helicopter installation strategy no apparent appreciation of the need for access or the remoteness of the work.
- Does not have access to pool of skilled labor, rather would endeavor to secure internationally.

From the presentation it was apparent that Mastec does not have the capability to undertake this scope, and that adding them to the bid list would substantially increase the risk of non-completion of the transmission line by mid-2017.

Kenny Construction

In consideration that Kenny Construction's business model is to act as a General Contractor, LCMC does not view it has having the credentials to construct such a large complex project without the support of a major contractor such as Valard, for which they do not have a commercial arrangement.

In July 2013 LCMC engaged the services of Kenny Construction (now a part of Granite Construction) to both provide staff augmentation services and marshaling yard operational

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services. As such, Kenny is considered conflicted from being a bidder on the HVdc transmission scope.

Isolux-Corsan and Kiewit

LCMC met with representations of both Isolux-Corsan and Kiewit in St. John's on 14-Nov-2013. Isolux-Corsan and Kiewit have formed a 50/50 JV in order to bid the HVdc transmission line scope, which Isolux believes will address their construction shortfalls since its business model is to act as EPC or GC and subcontract the work. This is the first time either of these entities has worked together; LCMC considers this a risk.

Since bidding CT0319, Isolux has captured a smaller transmission line project as part of a larger SaskPower \$150 million project, as well winning \$200 million of contracts in Brazil. Kiewit does not presently have any active transmission projects. The JV's desire is to undertake the entire 1100km of transmission work.

Kiewit has never built a transmission line under a wall-to-wall IBEW model and is skeptical of whether it will be successful since in their view it "has not been tested in Newfoundland." LCMC observed this same mindset during the bid clarifications for CD0501 – HVdc Converters.

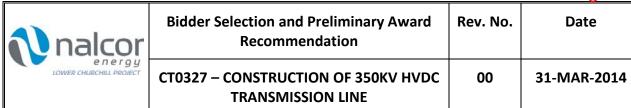
In short, while LCMC are confident in Kiewit's capability to bid as a general contractor, their pricing proposal for labor as demonstrated for both CH0007 – Intake, Powerhouse and Spillway Construction and as the civil contractor for ABB's bid for CD0501 HVdc Converters begs the question as to whether they would be the spectrum of what it takes to be competitive.

When these concerns are added to the recent bid information on Isolux for CT319 as outlined in Section 5.3, the LCMC team does not believe this JV can execute this work, and definitely not in a competitive manner.

Barnard

Based on the fact that Barnard had not found an additional Transmission Line contractor since CT0319 where it was determined that they were not qualified the only conclusion to be reached for CT0327 is that they would not be able to execute any of the segments.

Emera Utility Services



Based on the assessment in CT0319 that Emera simply did not meet the qualifications necessary to execute a segment and the fact that there pricing was simply not competitive it was concluded that they were not able to execute any sections of CT0327.

Quanta Services Inc. / Valard Construction LP

Based on the CT0319 bid submission and further exploration of Valard's capabilities it was clear that they were capable of executing CT0327 and were competitive.

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6.0 AVAILABLE OPTIONS FROM PHASE II SCREENING

With consideration of the extensive bidder selection process that occurred during Phases I and II combined with the results of CT0319 HVac Transmission Line Construction and the conclusion that only one organization is truly qualified at this point in time to execute CT0327 , LCMC believed there were practically three (3) available options to construct either CT0327 or the entire 1080km, each of which has pros and cons. They are:

- Option 1: Re-test Market / Bid Entire Scope to potential bidders identified out of Phase I
- Option 2: Pursue Open book Negotiated Agreement with Valard for Labrador, bid Island portion
- Option 3: Pursue Open book Negotiated Agreement with Valard for entire scope

Table 3 summarizes the primary benefits and risks of each of the three (3) procurement options.



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Table 3: Procurement Option Summary

Option	Primary Benefits	Primary Risks
Option 1	Typical process that is transparent to all May get interest from companies who did not respond to HVac TL	 Marketplace interest in bidding – likely ends up with similar result as CT0319, but loss considerable opportunity time getting there. Contrary to Open-Book model, LCMC does not have visibility into estimate inputs – traditional beat-down model would result take a considerable amount of effort and resources, but in the end provide limited value to influence. Contractor contingency risk is likely higher Risk of multiple subcontractor mark-ups in bids presented by larger EPC firms Time to bid, which would likely loose fall 2014 start, plus LCMC would have to contract ROW and Access separately Removes further opportunities for constructability input in final material selection and design Could result in loss of capacity current pre-qualified contractor has available Loss of potential synergies with AC If successful, requires larger LCMC Construction Team to assume larger field coordination role to oversee multiple smaller contractor, thus aren't able to spend the necessary time focus on the big picture and long term project success. Having multiple contractors can result in more complex disputes as contractors may try to pin blame on others (the so-called "finger pointing risk") Breaking construction into multiple segments or scopes: may require additional internal resources to manage scope overlap and contractor coordination; and



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Option	Primary Benefits	Primary Risks
		 may introduce competition among multiple contractors for the same labor resources, thus driving up labor costs.
Option 2	 Contractor-of-choice Self-performing contractor – can avoid multiple subcontractor mark-ups Ensures spring-2014 start for Labrador Synergize with HVac TL Quanta manage access and clearing in Labrador Reduction on contractor contingency by open book discussions Increases opportunity to reduce the size and cost of the LCMC oversight role. Transfers interface risk for ROW clearing to the TL contractor 	 Valard could not bid Island Lack of competitive bid for Labrador Time to bid Uncertain of who can perform Island Long Range Mtns could not commence in 2014 Removes further opportunities for constructability input in final material selection and design LCMC would have to pursue ROW clearing and access construction for Island separate from the line construction scope, thus adding an additional interface risk. Breaking construction into multiple segments or scopes: may result in multiple interface points; may require additional internal resources to manage scope overlap and contractor coordination; and may introduce competition among multiple contractors for the same labor resources, thus driving up labor costs
Option 3	 Transparent pricing structure with full disclosure and agreement on key inputs Self-performing contractor – can avoid multiple subcontractor mark-ups Provides the greatest opportunity for LCMC to influence the execution plan and methods upon which Contractor is using as inputs to the estimate Provides opportunity for open-debate on risk and 	 Lack of competitive bids •



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Option	Primary Benefits	Primary Risks
Option	exposures in order to reduce contractor risk premiums Contractor-of-choice with a solid plan – access to vast resources – some 12,000 utility workers Ensures spring-2014 start Most flexible construction program - i.e. spreading resources across AC and DC, synergies on indirect Constructability input opportunities maintained Reduction on contractor contingency by open book discussions Presents most commercial opportunities for LCMC Increases opportunity to reduce the size and cost of	Primary Risks
	the LCMC oversight role – one contractor, with one way of doing business.	

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With consideration of the above including but not limited to:

- the results of lessons learned and outcome of CT0319,
- the current marketplace trends,
- clear lack of qualified contractors,
- execution model concerns, i.e. subcontracting vs self execution,
- pending work elsewhere that would create capacity concerns if not acting upon quickly,
- challenges with splitting up the work, ie market constraints for owner management team,
- recent benchmark pricing,
- labour access concerns, and
- the desire to capture potential synergies with CT0319

it was decided to open discussions with Quanta/ Valard in an open book process to explore possibilities knowing that the three (3) options above would remain open.

Therefore, following LCMC's initiation, in October 2013 a Non-Disclosure Agreement was executed between Lower Churchill Management Company (LCMC) and Quanta Services Inc. to explore an Open-book Price Development / Closed Book Execution for the HVdc transmission line (reference Attachment 8). Key principles underpinning these exploratory negotiations included:

- Both parties believe that direct negotiations can get to a win-win endpoint for LCMC and Valard/Quanta.
- Both parties subscribe to collaboratively developing an open book price model with closed book execution
 - Will build up trust between the parties and allow for the mutual discovery of cost saving/sharing opportunities
 - Will allow Valard/Quanta to incent supervisory and workforce performance
 - The contract price structure is expected to be a combination of fixed price and unit rates for foundations Substantially similar to the CT0319 contract.

In initiating these discussions, LCMC prudently considered the outcome of the Phase I screening process, the complexity of the HVdc transmission line, and the above referenced considerations and learning. In assessing these, it was strongly felt that the most probable success path for LCMC would be to negotiate a fair and reasonable price with Quanta Services for the entire 1080km HVdc line given their marketplace dominance, capability and capacity to undertake the work in the relatively short timeline available but knowing throughout the process that the other options would still be available if needed. The open-book model would provide LCMC with true visibility into all estimate inputs, thereby allowing LCMC to strongly influence the price estimate for the work.



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These extensive open-book discussions led to a preliminary view of the potential cost and execution plan to undertake the entire HVdc scope being presented on 16-Dec-2013. In summary, Valard presented a sound execution plan with capacity demonstrated, there was good constructability and value-engineering input resulting in execution risk reduction, and they demonstrated an appreciation for the complexity of the undertaking.

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7.0 RECOMMENDED CONTRACTING STRATEGY

With consideration of the pros and cons of the three (3) options reviewed in Section 6.0 and the outcome of the open book discussions, the LCMC considers that Valard Construction, as part of Quanta Services, is the only entity capable of constructing the entire HVdc transmission line or even the logistically challenging areas such as interior Labrador and Long Range Mountains.

Given the outcome of the Open Book process and the reasons outlined previously LCMC does not believe it would be in the best interests of the overall LCP to alter our execution plan for the HVdc TL to a model wherein LCMC are basically the general contractor managing several smaller entities to achieve the overall build program. LCMC does not have access to the necessary resources to implement such a model, further devoting its limited resources to achieve a successful execution of this model would distract from broader project delivery activities that LCMC must ensure a strong focus upon. The capability and capacity concerns alleviated by this model are clear and the preliminary pricing arrived at is believed to be directionally best value for the project when benchmarked against the results of CT0319, ie the team would fully expect others to bid higher.

Once reviewed this recommendation applies to the option of splitting up Newfoundland and Labrador as well. In doing so there would still be capability concerns in the market, interface and management constraints and loss of synergies with Quanta /Valard.

As such, it is recommended to aggressively pursue the satisfactory conclusion of a Negotiated Agreement using the open-book price negotiations with Quanta Services that was initiated in October 2013 under a Non-Disclosure Agreement. In short, this option presents the least total risk exposure for LCMC, plus provides the greatest opportunity to reduce the overall price.

These Negotiated Agreement discussions shall continue to consider all available options that can achieve LCMC's objective of balancing absolute cost against cost predictability.

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8.0 AWARD RECOMMENDATION

8.1 ESTABLISHING THE OPEN-BOOK PRICE

As discussed in Section 5.7, Valard initially presented the results of its open book estimate and preliminary execution plan on 16-December-2013 (reference Attachment 10). In short, the estimated price was \$1,178 million, inclusive of access and right-of-way clearing. This estimate was premised on the latest quantities provided by LCMC during the open book process.

In LCMC's opinion, there was a significant amount of conservatism included in this initial open-book price, in particular with respect to ROW clearing and access construction. If we were to consider moving forward this would have to be reconciled.

On 23rd & 24th January 2014, a meeting was held in Edmonton to determine whether there was opportunity to close the gap on the continuous items. In attendance on behalf of LCMC were Jason Kean, Lance Clarke, Pat Hussey and Desmond Butt; attending on behalf of Valard were Victor Budzinski (CEO – Valard), Adam Budzinski (President – Valard), BJ Ducey (VP – Quanta), Gary Murphy (Advisor – Quanta), Jody Rideout (Project Director – Valard), Joe Malaney (Estimator – Valard), and Marc Ouimet (Clearing and Access Manager).

During the period of time between the 16-December-2013 estimate and this meeting, Valard had undertaken a review of its estimate and execution parameters which resulted in a number of smaller changes increasing the total estimate to \$1,182.5 million, broken down into:

- Right-of-way Clearing and Access = \$273.3 million
- Transmission Line Construction = \$909.2 million

From these discussions the potential of \$55 million in savings for the TL construction portion, plus an additional \$20 million in savings for an alternate rock foundation design were identified. Further agreements were reached on how to reduce the total cost of the Right-of-Clearing and Access. These included:

- Nalcor would direct award ROW clearing and access contracts thus remove Valard's mark-up of 15%;
- LCMC and Valard would jointly bid the scope;
- Valard would manage the ROW clearing scope post award; and
- Access would be optimized and payment would be on field actuals.

At the end of these sessions, we communicated to Quanta that although we appreciated their view of how tight the estimated price was considering the scope and inherent risk, we expected



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they would reduce their margin given the volume of work we could offer them. Without this we were in a grey-zone – the expected price still exceeded our expectations and we were unsure of the way-forward.

At the end of these meetings Quanta requested the opportunity for their CEO (James O'Neill) to meet Ed Martin to understand whether they may be provided with the opportunity. This meeting was arranged and subsequently held between Nalcor Energy (Nalcor), LCMC, Quanta, and Valard on the 24-Feb-2014, in St. John's, NL at Nalcor's Hydro Place office.

Attendees with the Nalcor and LCMC teams were as follows: Ed Martin (CEO – Nalcor Energy), Gilbert Bennett (VP – LCMC), Paul Harrington (Project Director – LCMC), Lance Clarke (Business Services Manager – LCMC), and Jason Kean (Deputy General PM – LCMC).

Attendees with the Quanta – Valard team were as follows: James O'Neill (CEO – Quanta), Duke Austin (COO – Quanta), Victor Budzinski (CEO – Valard), Adam Budzinski (President – Valard), BJ Ducey (VP – Quanta), Gary Murphy (Advisor – Quanta), Jody Rideout (Project Director – Valard), and Joe Malaney (Estimator – Valard).

LCMC's objective for these meetings was to determine whether Quanta were willing to reduce their profit margin for the scope from 15% to 10% or less as well as seek all opportunities to unlock potential value from the arrangement. In short, this was achieved, wherein Valard indicated the price for the TL construction would be \$820 million, reflective of a 9.0% profit margin. The parties agreed that the ROW clearing and access construction scope would continue to be pursued as per the outcomes of the 23rd & 24th January meetings. Details of the cost estimate are presented in Attachment 10.

8.2 MEMORANDUM OF UNDERSTANDING

A Memorandum of Understanding (MOU) between LCMC, Quanta Services, and Valard Construction was subsequently concluded from these CEO meetings (reference Attachment 11). In short the following was agreed during this meeting and articulated in the MOU:

• The execution plan, work schedule and management organization for the work will be generally consistent with Valard's proposal made on the 16th day of December, 2013, including the establishment of a Project Office in the City of St. John's from which control and management of the scope will be led by a full-time Project Director.



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- The Agreement between Valard and LCMC will be consistent with that of CT0319 –
 Construction of HVac Transmission Lines (MF to CF) executed on the 17th day of
 December 2013.
- Valard has agreed to reduce its price for the transmission line construction, excluding right-of-way (ROW) clearing and access preparation to \$820 million CDN, excluding the benefit of any savings that may be realized from alternate foundation designs (reference Attachment 1). It is understood by the Parties that this value is predicated upon a 9.0% target profit margin.
- LCMC fully believes that the estimated cost for ROW clearing and access construction can be significantly reduced from the original estimate of \$273.3 million CDN. LCMC and Valard commit to work collaboratively in order to optimize access and ROW clearing requirements and execution approaches in order to reduce the estimated cost for the scope, including building upon the agreements reached during the meetings that occurred on 23rd& 24th of January, 2014, in Edmonton, Alberta as documented in the attached (reference Attachment 2). Specific agreements included:
 - LCMC and Valard will work to define the preferred execution approach for the works, including evaluating all viable options including Valard self-performing, using clearing and access contractors, or other commercial alternatives.
 - In the event of using third party contractors, these will be bid and selected by Valard using an agreed procurement model. LCMC will hold such contracts, with direct paying obligations, while Valard will manage their field activity.
 - Valard act in the capacity of the General Contractor for all ROW clearing and access construction including providing camps, fuel, catering, medical support, HSE programs for all third party contractors.
 - o It is LCMC's intention to augment Valard's management of the scope by the secondment of key resources to Valard for the work.
- LCMC and Valard will continue to collaborate in order to develop materials staging and transportation plans that are in the best interest of both parties.
- Nalcor is unable to commit to other transmission works planned to be constructed before the end of 2017 in the Province by itself, affiliates or partners to Valard due to the likelihood that such works may be subject to the Public Tendering Act, however in either case Valard has agreed to maintain its targeted profit margin at 9.0% in any proposals involving such work.

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- With respect to its proposal for package CD0502 Switchyards, Valard will adjust their proposal price to reflect a 9.0% target profit margin.
- The Parties will work together to explore opportunities for commissioning support that may be required by LCMC as part of the commissioning of the LCP.
- Valard's intentions are to establish, through its involvement in the LCP, a longer-term
 presence in the Province of Newfoundland and Labrador to provide technical capability
 in support of future capital and operational investment in the Province's electrical grid.

8.3 AWARD VALUE

Based on the above it is recommended that CT0327 – Construction of 350kV HVdc Transmission Line be awarded to Valard Construction LP for a Contract Value of **\$820 million** Canadian, excluding Right-of-Way Clearing and Access Works. This contract value will be confirmed as the final aspects of the MOU are concluded, including the costs of holdback, performance securities, and any adjustments resulting from final quantities (limited exposure).

It should be noted that all expenditures under this package are in Canadian funds, while the price is fixed and firm for the duration of the work, including all escalations for labor and commodities. It also includes all costs for rotational travel, which is to Valard's account.

For the transmission line construction, the agreement will essentially mirror the compensation structure of CT0319 – Construction of 315kV HVac Transmission Line, while commercial arrangements of the ROW clearing and access construction remains pending. In general LCMC and Valard will evaluate the optimal commercial structure for Valard to either self-perform and / or manage this scope, details of which are articulated in the MOU. Under any such arrangement, the value of Agreement CT0327 will increase to incorporate these scope additions.

LCMC target for ROW Clearing and Access will be set at \$200 million Canadian, while the commercial model to achieve the targeted price reduction from the \$273 million initially tabled by Valard will be finalized prior to the issue of a LNTP. Accordingly this Award Recommendation will be revised to reflect the final commercial agreement and award value.

This contract price is summarized in Attachment 12 (PENDING).

Table 4 provides a brief variance analysis against the DG3 Baseline.

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Table 4: Variance Analysis against DG3 Baseline

Parameter (millions CDN\$)	HVac TL	HVdc TL
DG3 Budget	204.4	734.7
Scope Changes & Transfers	<u>28.2</u>	<u>138.8</u>
Revised Budget	232.6	873.5
Contract Value	258.2	1,020.0
Variance	25.6	146.5
	11.0%	16.8%

8.4 PERFORMANCE SECURITY

The form of performance security included in this Agreement is similar to that contained in Package CT0319 while, as indicated in the MOU, the value of the letter of credit will be subject to good faith negotiations. While the details of the Performance Security remain to be concluded, it will include:

- Parent Company Guarantee from Quanta Services
- Letter of Credit of suitable value to provide liquidity in the event of contractor default and the need to mobilize an additional contractor to complete a portion or all of the remaining scope.

LCMC with Nalcor Treasury will work with Quanta to optimize a security package that considers the need to balance the cost of the security as well as Labrador-Island Link Limited Partnership's exposure. Key considerations will include:

- Opportunities to optimize the security package with consideration of the total scope of exposure between CT0319, CT0327, and other potential work that Valard may be successful in obtaining (e.g. CD0502 AC Switchyards).
- Consideration of how the total exposure to either of Labrador-Island Link Limited Partnership or Labrador Transmission Corporation may change as the schedule progresses and work is completed (i.e. sections of the transmission line are completed).

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- Quanta Services is a well-established, publicly traded company with 2013 revenue of \$6.5B and has no debt, and are able to offer an unlimited guarantee.
- Valard, in itself, is a financially sound (2013 revenue of \$1B) and reputable company known for their reliability on the job and with a history of finishing what they start.
- Materials will be free issued to Valard, therefore not posing any risk to the project.
- Valard has approximately 10% of its work subcontracted resulting in much of their costs utilizing their own labour. Work incurred would be paid as it progresses, thus making it difficult for Valard to holdback payment to its labour force or its subcontractor.

8.5 LIQUIDATED DAMAGES – MILESTONE GUARANTEED COMPLETION DATE

Liquidated Damages negotiated under the Memorandum of Understanding are as follows:

- 1. The scheduled date of Substantial Completion is 30 June 2017.
- 2. If Contractor achieves Substantial Completion within 15 days from the scheduled date of Substantial Completion (the "Expiry of the Grace Period"), no liquidated damages will apply.
- 3. If Contractor achieves Substantial Completion between 16 and 45 days inclusive after the scheduled date of Substantial Completion (July 16, 2017 to August 15, 2017 inclusive), Contractor shall pay Company as liquidated damages \$350,000 CDN for each day of such failure after the Expiry of the Grace Period.
- 4. If Contractor achieves Substantial Completion 46 days after the scheduled date of Substantial Completion (August 16, 2017), or later, Contractor shall pay Company as liquidated damages \$750,000 CDN for each day of such failure.
- 5. Contractor's limit of liability for liquidated damages payable by Contractor to Company will be a maximum of ten percent (10%) of the Contract Price.
- 6. All other terms and conditions regarding liquidated damages will be consistent, mutatis mutandis, with those of the Articles of the agreement between Labrador Transmission Corporation and Valard for the Construction of HVac Transmission Lines (MF to CF), effectively dated the 17th day of December 2013, being Agreement No. CT0319.

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8.6 EXCEPTIONS TO AGREEMENT ARTICLES

Agreement CT0327 will have the same Articles as contained in Agreement CT0319, with one notable expectation, specifically a cap on liability to 100% of the contract value. The following is the agreed language contained in the MOU that will replace the Article 21.15 contained in CT0319 for CT0327:

"Notwithstanding anything to the contrary in this Agreement, the maximum aggregate liability of Contractor to Company for all Claims arising out of or connected with the Work or performance or breach of this Agreement shall be limited to the sum of:

- (a) one hundred percent (100%) of the total Contract Price; and
- (b) the amount of actual insurance proceeds received with respect to such Claims from insurance to be maintained under this Agreement, less any applicable deductible in respect of any proceeds received by Company under Contractor's third party liability insurance;

provided however that such limitation shall not apply in cases of:

- (i) Claims for personal injury (including death) for which Contractor is liable to Company or has a duty to indemnify Company under this Agreement;
- Claims for property damage or loss for which Contractor is liable to Company or has a duty to indemnify Company under this Agreement, except for damage to or loss of the Work;
- (iii) Contractor's fraud, willful misconduct or gross negligence;
- (iv) Taxes, fines and/or penalties imposed by any Authority for which Contractor is liable under this Agreement;
- (v) Claims for infringement of patents and/or other intellectual property rights, or breach of the confidentiality provisions of this Agreement;
- (vi) Claims for any environmental damage or loss for which Contractor is liable to Company or has a duty to indemnify Company under this Agreement or resulting from a breach of this Agreement by Contractor; and
- (vii) any other Claims by a third party, including any Authority, for which Contractor has a duty to indemnify Company under this Agreement."

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Holdback

As with CT0319, LCMC have a desire to optimize the Mechanism Lien holdback costs under Agreement CT0327 so as to reduce finance carrying cost. Details of the arrangement under CT0327 remain to be concluded as part of the broader discussion on the performance security; however it is mirror the concepts agreed under CT0319. In this Agreement, it was finally agreed by both the Valard and LCMC to withhold 10% of total contract value during the last six (6) months of the contract, in lieu of holding 10% from Day 1. This scenario would further satisfy any holdback concerns and would decrease the financing costs for Valard, which in turn would result in cost reductions for Labrador Transmission Corporation.

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9.0 ATTACHMENTS

Attachment 1: Phase I: Evaluation Summary

Attachment 2: Phase I: Commercial Scoring Sheet

Attachment 3: Phase I: Technical Scoring Sheet

Attachment 4: Phase I: Health and Safety Scoring Sheet

Attachment 5: Phase I: Environmental Scoring Sheet

Attachment 6: Phase I: Quality Scoring Sheet

Attachment 7: Contractor Pre-qualification Submissions (E-Files)

Attachment 8: NDA with Quanta and Open-Book Pricing Model Approach

Attachment 9: Valard's 16-December-2013 Preliminary Execution Plan

Attachment 10: Valard's 24-February-2014 Proposal

Attachment 11: MOU between LCMC, Quanta Services, and Valard Construction

Attachment 12: Estimated Contract Value and Comparison to Budget

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PHASE I: EVALUATION SUMMARY

Evaluation Summary

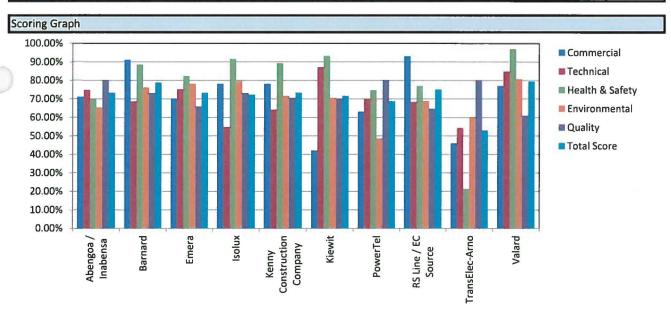


Package Name: Construction of 350kV HVdc Transmission Line - Section 1

Package No.: CT0327 Project: 505573 Date: 30-Jan-13

Overall Pass	/ Fail Mark >=	60.00%
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	Max Score	Percentage	Pass/ Fail	Commercial	Technical	Health & Safety	Environmental	Quality
Total Possible Points	100,00%			25.00%	30.00%	15.00%	10.00%	20.00%
Abengoa / Inabensa	100.00%	73.19%	Pass	71.00%	74.71%	70.00%	65.25%	80.00%
Barnard	100.00%	78.78%	Pass	91.00%	68.53%	88.46%	76.00%	73.00%
Emera	100.00%	73.31%	Pass	70.00%	75.00%	82.31%	78.00%	65.80%
Isolux	100.00%	72.19%	Pass	78.00%	54.71%	91.54%	79.50%	73.00%
Kenny Construction Company	100.00%	73.37%	Pass	78.00%	64.12%	89.23%	71.50%	70.50%
Kiewit	100.00%	71.63%	Pass	42.00%	87.06%	93.08%	70.50%	70.00%
PowerTel	100.00%	68.70%	Fail	63.00%	69.71%	74.62%	48.50%	80.00%
RS Line / EC Source	100.00%	75.03%	Pass	93.00%	68.24%	76.92%	68.75%	64.50%
TransElec-Arno	100.00%	52.92%	Fail	46.00%	54.12%	21.23%	60.00%	80.00%
Valard	100.00%	79.41%	Pass	77.00%	84.71%	96.92%	80.50%	60.80%



Notes:

In order to advance to Bidders List an Applicant must:

- 1) Equal or exceed the Pass / Fail mark.
- 2) Receive an Environmental score greater than or equal to 60%
- 3) Receive a Health & Safety score greater than or equal to 70%
- 4) Receive a Quality score greater than or equal to 60%

Commercial Rep	Date	
Technical Rep	Date	
Quality Rep	Date	•
Health & Safety Rep	Date	
Environment Rep	Date	

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PHASE I: COMMERCIAL SCORING SHEET

Commercial Scoring Matrix

'ackage Name:

Construction of 350kV HVdc Transmission Line - Section 1

Package No.:

CT0327 505573

Project: Scored By: Date:

Micah Sze 01/07/2013

Scoring Guide:

- 0 Question not answered or no relevant information provided in response
- 1 Response does not meet key Criteria
- 2 Response only meets a few of the key criteria
- 3 Response meets a majority of the key criteria
- 4 Response meets all key criteria
- 5 Response meets and exceeds key criteria

	Question	Abengoa	/ Inabensa	Bar	nard	Em	era	Iso	lux	К	cc	Kie	wit	Pow	erTel	TransE	lec-Arno	Val	lard	RS Line /	EC Source
	Weight (%)	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score
General Commercial Information																					
2.5 Has Applicant provided names of Company Officers?	5	5	5	5	5	5	5	3	3	5	5	2	2	5	5	3	3	3	3	4	4
3.0 Has Applicant completed the Contract																		8			No. of the last
commitment table complete?	10	5	10	5	10	0	0	0	0	0	0	О	0	.5	10	3	6	0	0	5	10
4.2 Applicant's Annual Revenue, Profit, and Debt/Asset Ratio.	15	3	9	5	15	5	15	5	15	4	12	0	0	3	9	3	9	5	15	3	9
4.3 Have financial statements for the last hree (3) years been provided?	15	2	6	5	15	3	9	5	15	5	15	0	0	0	0	0	0	4	12	5	15
4.4 Are annual financial/income statements signed by an Accountant?	5	3	3	5	5	5	5	5	5	5	5	0	0	3	3	2	2	3	3	5	5
4.5 Range of costs Applicant is prepared to bid (Max/Min).	20	3	12	4	16	3	12	4	16	5	20	5	20	2	8	3	12	5	20	5	20
4.6 Can Applicant supply Performance/Payment bonds?	5	3	3	4	4	4	4	4	4	4	4	5	5	5	5	3	3	5	5	5	5
4.7 Can Applicant supply a Letter of Credit?	5	3	3	3	3	0	0	0	0	0	0	0	0	3	3	0	0	0	0	5	5
4.8 Can Applicant provide a guarantee?	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5	1	1	5	5	5	5
4.10 (a) Does Applicant have any judgements, claims, or suits pending or outstanding?	2.5	5	2.5	3	1.5	5	2.5	5	2.5	3	1.5	5	2.5	5	2.5	5	2.5	3	1.5	5	2.5
4.10 (b) Has Applicant ever been involved in any bankruptcy or reorganization proceedings?	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5
4.10 (c) Has Applicant ever had a contract terminated before completion of the work?	2.5	5	2.5	3	1.5	5	2.5	5	2.5	5	2.5	5	2.5	-5	2.5	5	2.5	5	2.5	.5	2.5
4.10 (d) Has Applicant ever had a draw down on a letter of credit issued for any contract?	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	5	2.5	₈ 5	2.5	5	2.5	5	2.5	,5	2.5
5.1 Has Applicant indicated it has read and will comply with the local Benefits Strategy?	5	5	5	5	5	5	5	5	5	3	3	5	5	5	5	0	0	5	5	5	5
Score	100	71	.00	91	.00	70	.00	78	.00	78	.00	42	.00	63	.00	46	5.00	77	.00	93	.00
	Percentage		00%		00%		00%	·/	00%	78.			00%		00%		.00%	77	00%	93	00%

Notes:

dewit, PowerTel, and Transelec-Arno did not provide their financial statements. Emera only provided a copy of their parent company's financial statements.

PowerTel has a limited bonding capacity of \$40M

Kiewit and TransElec-Arno cannot provided a parent guarantee.

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Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

PHASE I: TECHNICAL SCORING SHEET

Technical Scoring Matrix

Package Name:

Construction of 350kv HVdc Transmission Line - Section 1

Package No.:

CT0327

Project: Scored By: 505573 Keenan Healey BHWley 30-Jan-13

Date:

	Question	Abengoa	/Inabensa	Bar	nard	Em	era	Iso	lux	К	CC	Kie	wit	Pow	erTel	Transe	lec-Arno	Va	lard	RS Line/I	EC Source
8	Weight (%)	Answer	Score	Answer	î .	Answer	Score	Answer	Score	Answer		Answer	Score	Answer	Score		P .	Answer	Score	Answer	Score
Technical General											Stant S										
2.1 Work History Table	20	20	20	10	10	12	12	20	20	19	19	20	20	18	18	18	18	0	0	17	17
2.3.1 List the equipment with year, model, hours and whether it is						•															
owned or rented that is available to you for the construction of the													all of the		464		40.20		0.00		
transmission lines described in Section 1.0 of Supplier General	10	2	2	10	10	5	5	0	0	0	0	10	10	10	10	10	10	10	10	10	10
Expression of Interest (EOI).																					
2.3.2 Describe any expertise with building transmission lines in cold																					
climate winter weather conditions.	10	8	8	10	10	10	10	2	2	4	4	10	10	5	5	5	5	10	10	7.5	7.5
2.3.3 Describe your expertise with building and using ice bridges in	10	2	2	0	0	8	8	0	0	2	2	10	10	5	5	5	5	10	10	3	3
construction.								X#31		17.				T.2							
2.3.4 Describe your company's experience with building transmission lines with very poor access.	10	10	10	8	8	5	5	2	2	8	8	10	10	5	5	5	5	6	6	5.5	5.5
2.3.5 Describe your company's experience with using helicopters in						_						_		=						.4.	
the construction of transmission lines.	10	10	10	8	8	8	8	4	4	10	10	5	5	5	5	4	4	6	6	9	9
2.3.6 Describe your company's expertise with managing, and in																					
particular, training a large group of people from local communities.	10	5	5	10	10	8	8	2	2	4	4	10	10	8	8	2	2	10	10	5	5
2.3.7 Describe your company's experience working on projects with																	100				
extensive environmental and regulatory compliance requirements.	10	5	5	10	10	10	10	4	4	6	6	10	10	6	6	5	5	10	10	10	10
2.3.8 On each of the transmission lines listed on the Table in Section																					
1.1, were foundations, tower erection, stringing or OPGW	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0
installation subcontracted out?																					
2.3.9 How many lattice tower transmission lines can you build																					
concurrently?	5																				
										^											
How many lattice tower transmission lines are you currently	10	10	10	2	2	8	8	10	10	8	8	8	8	2	2	2	2	10	10	10	10
building?				_		_															
What was the maximum number of lattice tower transmission lines																					
your company built concurrently in the past?																					
2.3.10 What was the maximum number of lattice tower																					
transmission lines your company built concurrently in the past?	10	10	10	2	2	2	2	10	10	8	8	5	5	2	2	6	6	10	10	9	9
,	20					_															
2.3.11 Describe your company's experience with building																					
transmission lines in close proximately to existing energized	10	10	10	10	10	10	10	5	5	6	6	5	5	10	10	10	10	10	10	2.5	2.5
facilities.																					

Technical Scoring Matrix

		Abengoa	/Inabensa	Bar	nard	Em	era	Iso	lux	K	CC	Kie	ewit	Pow	erTel	Transe	ec-Arno	Va	lard	RS Line/E	C Source
	Percentage	8	71%		53%		00%		71%		12%	1550,9000	06%	75.000.00	71%	1000000	12%		71%		24%
	170	do-	7.00		5.50		7.50		.00		9.00		3.00		3.50		.00		1.00		5.00
3.4.3 Please submit a list of the software (or company internal systems) that you will use in the execution of the work. This should cover design, planning and scheduling, materials management (procurement, inspection, expediting and logistics), quality assurance and contract administration.	5	4	4	5	5	4	4	5	5	5	5	5	5	2.5	2.5	0	0	4	4	1.25	1.25
3.4.1 Please identify the major or special items of work that you expect to subcontract.	5	0	0	2.5	2.5	5	5	4	4	0	0	5	5	8	8	0	0	5	5	2.5	2.5
3.3.4 Please describe your work loading, for the facilities and equipment covered in this Section 3.3, during the timeframe in which the work described for the Package for Prequalification is to be performed. In addition please comment on your capacity to perform in the time frame indicated.	5	0	0	2.5	2.5	2.5	2.5	0	0	0	0	5	5	2	2	O	0	5	5	0	0
3.3.3. Does your company currently own stringing equipment capable of tension string two pole, single modified Falcon 3640 kcmil ACSR conductors If not, how would your company obtain the required stringing equipment?	10	10	10	5	5	5	5	5	5	0	0	5	5	5	5	5	5	10	10	5	5
3.3.2 Please describe your proposed site facilities that would be used for the work, including the square measure of fabrication facilities, offices, repair facilities, lay-down area, camp, warehouse space, wharfage or other facilities relevant to the Scope of Work of the Package for Prequalification.	5	1	1	4	4	5	5	0	0	1	1	5	5	5	5	0	0	5	5	1.25	1.25
3.2.2 Does your Company have free access to its Suppliers and Sub- Suppliers Plants, Productions, Manufacturing, Service or other Facilities for quality auditing, monitoring, inspecting or surveillance?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3.3.2 Does your company have formal written policies, processes and procedures to monitor its subcontractors, suppliers and subsuppliers? Describe the process and procedures.	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3.2.1 Does your Company have formal written policies, processes and procedures to select, qualify and monitor Suppliers and Sub-Suppliers? inspecting or surveillance?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2.5	2.5
3.1 Has the applicant provided a proposed project and site organization chart?	5	5	5	2.5	2.5	5	5	5	5	5	5	5	5	5	5	0	0	8	8	5	5

LOWER CHURCHILL PROJECT TECHNICAL SCORING GUIDE FOR: 505573-CT0327 Construction of 350kv HVdc Transmission Line - Section 1

			Scoring criteria	i		
Question Number	Very Poor (Score=0)	Poor (Score=20% of Max)	Neutral (Score=50% of Max)	Good (Score=80% of Max)	Very Good (Score=100% of Max)	Max Score
Question 2.1 The purpose of this section is to establish the Applicant's recent (post year 2000) line construction experience. Please ensure that the table provided below is filled out with the requested information, as this information will be used in the technical evaluation.	with 50+ km with OPGW, 2 points camps supplied and maintained b	s for each HVdc project of distance by the contractor, 2 point each for that included both primary clearing	> 50 km, 1 point each for projects projects completed (>75 kM) in no	nes, 1 point for each project over .50 km+ in remote areas, 2 point e rthern areas, 1 point each for proj ch for projects using a similarly siz	ach for projects requiring remote ects in mountainous terrain, 4	20
Question 2.3.1 List the equipment with year, model, hours and whether it is owned or rented that is available to you for the construction of the transmission lines.	No response	5 or more	10 or more	15 or more	20 or more	10
Question 2.3.2 Describe your expertise with building transmission lines in cold climate winter weather conditions.	Na experience	≥1 project or >75 km	≥2 project or ≥ 150 km	>3 project or >225 km	>4 project or >375 km	10
Question 2.3.3 Describe your expertise with building and using ice bridges in construction.	No experience	1 project or 1 bridge	3 project or 3 bridge	4 project or 4 bridge	5 project or 5 bridge	10
Question 2.3.4 Describe your company's experience with building transmission lines with very poor access.	No experience	1 project or >75 km	>2 project or >150 km	>3 project or >225 km	>4 project or >375 km	10
Question 2.3.5 Describe your company's experience with using helicopters in the construction of transmission lines.	No response	≥1 project or >75 km	≥2 project or ≥ 150 km	>3 project or >225 km	>4 project or >375 km	10
Question 2.3.6 Describe your company's expertise with managing, and in particular, training a large group of people from local communities.	Na response	>1 project or > 25 people at once	>2 project ar > 50 people	>3 projects or > 75 people	>4 projects or > 100 people	10
Question 2.3.7 Describe your company's experience working on projects with extensive environmental and regulatory compliance requirements.	No response	>1 project described or general info of a low level	>2 project described or general info of a medium level	>3 project described or general info of a high level	>4 project described or general info of a very high level	10
Question 2.3.8 On each of the transmission lines listed on the Table in Section 1, were foundations, tower erection, stringing or OPGW installation subcontracted out? Please indicate which items for the transmission lines where subcontractors were used.						
Question 2.3.9 How many lattice tower transmission lines can you build concurrently? How many lattice tower transmission lines are you currently building? indicate which items for the transmission lines where subcontractors were used.	No response	1 or more	1 or more but at least 150 km	2 or more and 275 km	3 or more and 610 km	10
Question 2.3.10 What was the maximum number of lattice tower transmission lines your company built concurrently in the past?	No response	1 or more	1 or more but at least 150 km	2 or more and 275 km	3 or more and 610 km	10
Question 2.3.11 Describe your company's experience with building transmission lines in close proximately to existing energized facilities.	No response or no experience	>1 project or >25 km	>2 project or >50 km	>3 project or >75 km	>4 project or >100 km	10

LOWER CHURCHILL PROJECT TECHNICAL SCORING GUIDE FOR: 505573-CT0327 Construction of 350kv HVdc Transmission Line - Section 1

			Scoring criteria			
Question Number	Very Poor	Poor	Neutral	Good	Very Good	***
	(Score=0)	(Score=20% of Max)	(Score=50% of Max)	(Score=80% of Max)	(Score=100% of Max)	Max Score
3.1 Has the applicant provided a proposed project and site organization chart?	No	Partial just project or Site - but not both	Full Project or Site - but not both	Full or partial Project and Full or partial Site, at least one full and one partial	Full project and site	5.
3.2.1 Does your Company have formal written policies, processes and procedures to select, qualify and monitor Suppliers and Sub-Suppliers?	No		No but a solid explanation of such a process		Yes	5
3.3.2 Does your company have formal written policies, processes and procedures to monitor its subcontractors, suppliers and sub- suppliers? Describe the process and procedures.	No		No but a solid explanation of such a process		Yes	5
3.2.2 Does your Company have free access to its Suppliers and Sub- Suppliers Plants, Productions, Manufacturing, Service or other Facilities for quality auditing, monitoring, inspecting or surveillance?	No		Not all but some		Yes	5
3.3.2 3.3.2 Please describe your proposed site facilities that would be used for the work, including the square measure of fabrication facilities, offices, repair facilities, laydown area, camp, warehouse space, wharfage or other facilities relevant to the Scope of Work of the Package for Prequalification.	No explanation	Some points explained but less than half of the points asked for explained	Half the points asked for explained	Most of the points explained but not all of the points asked for explained	All points asked for explained	5
3.3.3 Does your company currently own stringing equipment capable of string single conductor 3640 kcmll 91/0 ACS.	Missed or simply no		No. But can source one.		Yes	10
3.3.4 Please describe your work loading, for the facilities and equipment covered in this Section 3.3, during the timeframe in which the work described for the Package for Prequalification is to be performed. In addition please comment on your capacity to perform in the time frame indicated.	Missed or no explanation	Somewhat explained	About half explained	Mostly explained	Fully explained	5
3.4.1 Please identify the major or special items of work that you expect to subcontract.	Missed or no explanation	Somewhat identified from what would be expected	About half expected identified	Mostly expected identified	Fully identified on what would be expected.	5
3.4.3 Please submit a list of the software (or company internal systems) that you will use in the execution of the work. This should cover design, planning and scheduling, materials management (procurement, inspection, expediting and logistics), quality assurance and contract administration.	Missed or no explanation	Somewhat identified from what would be expected	About half expected identified	Mostly expected identified	Fully identified on what would be expected.	5
					TOTAL Maximum Score:	170

<u>Bidder</u>	Technical Reviewer's Comments
Abengoa / Inabensa	Abengoa is a major player in the industry with a very impressive work history. They have HVac project experience with lines almost 1000 km long. However, they were the only pre-qualifier to have significant HVdc experience - a 2412 km, 600 HVdc, bipole line with a 2282 AAC conductor. Abengoa is one of three pre-qualifies who currently owns the stringing equipment required for the large conductor. Depending on their proposal I would recommend them for all three sections.
Barnard	Barnard is a major civil contractor with a lot of impressive contracts including linear infrastructure contracts. However, they don't have a lot of significant line experience and the lines subcontractor that they listed lacks lattice tower experience. I would recommend limiting Barnard to one segment and certainly not the complete Section, unless they proposed a more experienced lines subcontractor. With the right lines subcontractor they could be a major asset with their excellent construction experience.
Emera	Emera has preformed a lot of projects and have good Canadian utility experience with cold weather and helicopter experience. However, they have not performed any projects of the scale of this project, nor have they lot of experience with lattice towers in the last 10 years. I would recommend limiting Emera to one Segment.
Isolux	Isolux has preformed some very large transmission projects, three of the four projects are ≥ Section 1, with one project 1200 km. Their low score is mainly a reflection of not really seriously answering the questions. They appear to be a major player and had a potential for a much higher score.

<u>Bidder</u>	Technical Reviewer's Comments
Kenny Construction Company	KCC is general contractor with some decent projects listed. They seem to have good knowledge regarding building access in mountainous areas. However, they are a general contractor and would have to team up with a line contractor. They list Valard as their subcontractor who is also prequalifying so I am not sure if they have had any discussions with Valard., however, they listed Valard, thus, I am not sure if they even checked with Valard. They pass the prequalification but we will still need to evaluate their lines contractor if they bid on this project. This will be taken care of in the Technical Question in the RFP, for all general contractors who choose a lines contractor that we have not evaluated. Without knowing who their lines contractors are going to be I am not able to define how many segments they are able to perform concurrently.
Kiewit	Kiewit is a major general contractor with a tremendous amount of Canadian northern construction experience. Further, they have some good, similar line construction experience. They indicate that they would like to do the complete Section. The longest similar line they constructed was 217 km, so 610 km would be pushing new boundaries for them, but with their vast construction experience they should be considered for the Section, technically.
PowerTel	Powertel has some good transmission line construction experience and an impressive fleet of tracked vehicles. What they lack is lattice tower experience. I would think they could handle one segment but not the full Section. They were also listed as the subcontractor for Barnard.
Transelec- Arno	Transelec Arno has good Canadian northern experience. What they lack is experience with lines exceeding 100 km. There low score is not necessarily a reflection on their technical abilities but a reflection of limited answers. I would recommend them for a single segment but not the section.

<u>Bidder</u>	Technical Reviewer's Comments
Valard	Valard is a know major Canadian Lines Contractor who could do the full Section. Valard is one of three pre-qualifies who currently owns the stringing equipment required for the large conductor.
RS Line / EC Source	RSL is a know major Canadian Lines Contractor who could do the full Section. RSL is one of three pre-qualifies who currently owns the stringing equipment required for the large conductor. ECSource's score is lower than it would have been if they answered all the questions. The are JV'ing with RSL and thus left some question blank indicating that RSL would take care of the answer. They look to have some good transmission line project experience and even have a small fleet of helicopters used for the construction. They also have some good mountain experience.

nalcor	Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
LOWER CHURCHILL PROJECT	CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

PHASE I: HEALTH AND SAFETY SCORING SHEET

RS LINE/EC SOURCE

CIMFP Exhibit P-01886

Health and Safety Scoring Matrix

Package Name:

Construction of 350kV HVdc Transmission Line Sect 1

ABENGOA / INABENSA

BARNARD

VALARD

Package No.:

CT0327

Project: Scored By: Lower Churchill Project Bill Bishop

Date:

08-Jan-13

Question

Scoring Guide:

- 0 Question not answered or no relevant information provided in response
- 1 Response does not meet key Criteria
- 2 Response only meets a few of the key criteria
- 3 Response meets a majority of the key criteria
- 4 Response meets all key criteria
- 5 Response meets and exceeds key criteria

For Questions 4 - 13

- 5 Yes
- 0 No
- 0 N/A

NOTES:

- 1 Abengoa barely passed with the aid of info provided by its new partner (Inabensa)
- 2 Barnard has acceptable statistics and a reasonable program
- 3 Valard has a very strong safety management system
- 4 Isolux passed following areview of H/S information submitted for another project package (CT0319)
- 5 Kiewit has a high rate of MA's but a comprehensive safety management system
- 6 Powertel has a reasonable safety management system

KIEWIT

- 7 KCC has acceptable statistics and safety management system
- 8 Emera has barely acceptable statistics but a comprehensive safety management system

POWERTEL

- 9 Transelec failed based upon a lack of information provided now and during past submission
- 10 RS Lines/EC Source did not provide statistical data but were very comprehensive with submitted safety mgt system

KCC

EMERA

TRANSELEC - ARNO

	Weight (%)	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score								
Health & Safety												I a series									
2.1 Employee/Person Hours	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3.2	0	0
2.2 Workers Compensation (Full Section)	5	2	2	4	4	4	4	3	3	2	2	3	3	2	2	3	3	3	1.2	0	0
2.3 Safety/ Environment (Regulatory) Compliance Safety/ Environment	5	3	3	3	3	4	4	3	3	2	2	2	2	2	2	3	3	4	2.4	0	0
3.0 Health and Safety Record	5	2	2	4	4	4	4	4	4	3	3	3	3	3	3	2	2	2	0.8	0	0
4.1 Does Applicant's Health and Safety Program have a Policy Statement that clearly outlines the Company's commitment to health and safety stewardship?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4.2 Is Applicant's Health & Safety Program written to a Standard (such as ISO 18001 or CSA Z1000-06)?	5	5	5	0	0	5	- 5	5	5	5	5	5	5	0	0	5	5	5	5	5	0
5.1 Does Applicant provide formal Health & Safety management training to management personnel?	5	5	5	5	5	5	5	5	5	5	5	0	0 .	5	5	5	5	0	0	5	5
5.2 Does Applicant provide an overview of training program for management and employees?	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5	0	0	0	0	5	5
6.1 Does Applicant have a written procedure for incident/accident reporting and investigation?	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5	5	5	0	0	5	5
6.2 Does Applicant's incident/accident investigation follow a process such as the "TapRoot" process?	5	0	0	5	5	5	5	5	5	5	5	0	0	5	5	- 5	. 5	0	0	5	5
7.1 Does Applicant have an emergency response plan related to its activities and specific locations?	5	5	5	5	5	5	5	5	5	5	5′	5	5	5	5	, 5	5	5	5	5	5
7.2 Does Applicant provide Emergency Response training?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
8.1 Does Applicant have an Alcohol and Drug Policy? Are all employees made aware of this policy and is it enforced?	5	0	0	5	5	5	5	5	5	5	5	5	. 5	5	5	₁₇ 5	5	0	0	5	5
8.2 Does Applicant have a policy pertaining to prohibited items (e.g. knives, firearms)?	5	0	0	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	5	5
8.3 Are all employees made aware of this policy and is it enforced?	5	0	0	5	5	5	5	5	5	5	5	15	5	5	5	0	0	0	0	5	5
8.4 Does Applicant make reference to following all applicable 'egislative requirements in the jurisdiction where work is being performed?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
9.1 Does Applicant provide training for Management and Supervisors in safety management?	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5	5	5	0	0	5	5

ISOLUX

Health and Safety Scoring Matrix

			PASS		PASS		PASS		PASS		PASS		PASS		PASS		PASS		FAIL		PASS
_		ABENGOA	/ INABENSA	E9530CPC5903	NARD	L. CHRENCE	.ARD	375.0885	LUX	KIE	100000000	At 70 H 100 CO	ERTEL	13/1/5	CC	EM	IERA	TRANSEL	EC - ARNO	RS LINE/E	
	Percentage	0.000	.00%	88.	46%	96.	92%	91.	54%	93.6	18%	74.	62%	89.2			31%	<u></u>	23%	76.	
Score	130	91	L.00	11:	5.00	126	5.00	119	9.00	121	.00	97	.00	116	5.00	10	7.00	27	.60	100	0.00
13.2 Does Applicant's Health and Safety program require the prompt reporting of hazardous conditions at the worksite(s)?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
13.1 Does Applicant's Health and Safety program outline the requirements for Supervisors and Employees to conduct regular inspections of equipment work conditions at the worksite?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
12.2 Does Applicant have a Permit To Work system?	5	5	5	0	0	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	0
12.1 Does Applicant conduct Risk Assessments on all critical and non-routine jobs/job functions?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
11.2 Does Applicant inform workers of their rights to refuse unsafe work?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
11.1 Does Applicant hold scheduled safety meetings, such as: Weekly General Safety Meetings for all crew and Weekly Departmental Meetings for each department at the work site?	5	0	0	5	5	5	- 5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
10.2 Does Applicant have a formal process for determining personnel protective equipment requirements for its operation?	5	0 .	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
10.1 Does Applicant have a policy or specific rules with respect to the use of Personnel Protective Equipment (PPE)?	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5
9.2 Does Applicant have a process in place to ensure that only competent workers, including supervision, will be used during the operation?	5	5	5	5	5	5	5	0	0	5	5	5	5	5	5	5	5	0	0	5	5

nalcor	Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
energy LOWER CHURCHILL PROJECT	CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

PHASE I: ENVIRONMENTAL SCORING SHEET

Package Name:

Package No.:

CT0327

Project:

Lower Churchill

Scored By:

Construction of 350kV HVdc Transmission Line - Section 1

Lower Churchill

Lesley Reid

31-Jan-13

Scoring Guide

Date:

0 - Question not answered or no relevant information provided in response

1 - Response does not meet key Criteria

2 - Response only meets a few of the key criteria

3 - Response meets a majority of the key criteria

4 - Response meets all key criteria

5 - Response meets and exceeds key criteria

	Question	Abengoa	/Inabensa	EC Source	e/RS Line	Bai	rnard	Kenny Co	nstruction	ls	olux	Transle	ec-Arno	Valard		Emera		Ki	ewit	Powertel	
		Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score
nvironmental						216 748							15411121								
.1 Employee/Person-Hours																GERCHOLES					
1.1 number of employees	0		0		0		0		0		0		0		0		0		0		0
.1.2 number of person-hours	0		0		0		0		0		0		0		0		0		0		0
.2 Environmental (Regulatory) Compliance				WE SETZEN VERS										70-X80-6348						ne mentamie	THE RESIDENCE OF THE PARTY OF T
2.1.2 number of agency inspections conducted over past three years	0 1	(J. 10 10 11 11 11 11 11 11 11 11 11 11 11	0	1	0		0		0		0		0		0		0		0	The state of the	0
2.1.3 Amount of fines incurred, if any	0		0		0		0		0		0		0		0		0		0		0
0 Contractor Environmental Record												IF-III-VENALU	(0.04)(0.00)(0.00)	or seal of the				Marine Vales	Interes Parket		
1 person-hours/year for past three years	5	2.5	2.5	5	5	5	5	5	5	5	5	5	5	5	g g	5	5 5 5	5	5 - 5	5	5
2 environmental incidents/non-compliance	5	1.75	1.75	5	5	5	5	5	5	5	5	5	5	5	5	3.5	3.5	5	5	5	5
0 Leadership and Administration		2,1,5	2.00				But Jules	AND LESS VE	-		MIERNES COMO		DESCRIPTION OF THE PARTY OF THE			3.3					
1 Does your company have an environmental policy statement that clearly outlines its commitment to	5	4.25	4.25	3.75	3.75	5	5	4	1 SSE 4 M SS	4	4	Δ.	4	5	5	T 4	Δ	Τ 4	Δ	2.5	2.5
nvironmental stewardship?	50	1.25		3.73	3.,3	-		7		13						7.				2.5	
.2 Does your company have a formal Environmental Management System that conforms to a	5	3.75	3.75	1	1	4	4	0	0	4	4	0	0	2.5	2.5	4	4	4	4	0	0
ecognized Standard (such as ISO 14001)?																		AT .			
.3 Does your company have in place a chemical management procedure?	5	1.25	1.25	2.5	2.5	4	4	0	0	4	4	3	3	4	4	4	4	0	0	0	0
0 Leadership Training		Verter state																•			
L Does your company provide formal environmental management training to management personnel?	5	4	4	3	3	4	4	4	4	4	4	0	0	4	4	2.5	2.5	4	4	0	0
2 Provide an overview of training program for management and employees.	5	4	4	3.25	3.25	4	4	4	4	4	4	0	0	4	4	3	3	4	4	0	0
0 Incident Investigations				3.23						NOT THE REAL PROPERTY.			The state of the s			NEW CONTRACTOR					
Does your company have a written procedure for environmental incident reporting and	5	3.5	3.5	3	3	4	4	4	4	1	4	1	4	1	4	1	4	1	4	3.5	3.5
vestigation?	,	3.3	3.5	3		4	4	4		· •	•	7		4		4		7		3.3	3.3
2 Does your company incident investigation follow a process such as the "TapRoot" process?	5	3.5	3.5	3.25	3.25	1	1	4	4	3	3	4	4	3.5	3.5	4	4	0	0	2.5	2.5
0 Emergency Preparedness														all covered to			deven ve	W.			
1 Does your company have an emergency response plan related to its activities and specific locations?	5	4	4	3.25	3.25	4	4	4	4	4	4	3	3	4	4	4	4	3.5	3.5	2.5	2.5
		- Constitution								51155											
2 Does your company provide Emergency Response training?	5	2.25	2.25	3.25	3.25	4	4	4	4	3.5	3.5	3	3	4	4	4	4	3.5	3.5	2.5	2.5
3 Does your company have a spill response plan for hazardous materials, including fuels and other	5	4	4	3.25	3.25	4	4	4	4	4	4	4	4	4	4	4	4	3.5	3.5	2.5	2.5
etroleum products, that it transports, handles, uses, stores and / or disposes? O Organizational Rules, Policies & Procedures				CHELESWIN XXIII							CONTRACTOR OF THE PARTY OF THE										
1 Does your company follow all applicable legislative requirements in the jurisdiction where work is		4	Α	4	4	4	4	4	4	4	4	4	4	1	4	T 4	4	T a	Δ.	7.5	
eing performed?	٥	4		4	4	4	4	4	4	-4	4	4	4	4		4	4	4	4	2.5	2.5
.2 Does your company have formal environmental policies and procedures as part of its Environmental	5	3.5	3.5	3.25	3.25	4	4	4	4	4	4	3	3	4	4	4	4	4	4	2.5	2.5
lanagement System?									alexander I												
0 Employee Knowledge & Skills Training					y to the second				to the net				K TOWN				Vigin Tents	A Programme			
1 Does your company provide training for Management and Supervisors in environmental	5	4	4	3.75	3.75	4.5	4.5	4	4	4	4	3	3	4	4	4	4	4	4	2.5	2.5
nanagement?				2.75																	
.2 Does your company have in place a process to ensure that only competent workers, including upervision, are used during the operation?	5	2.25	2.25	3.75	3.75	4	4	4	4	4	4	3	3	4	4	4	4	4	4	2.5	2.5
.3 Does your company offer WHMIS training to its staff?	5	1.25	1.25	3.25	3.25	3.5	3.5	2.5	2.5	3.5	3.5	- 3	3	3.5	3.5	4	4	3.5	3.5	4	4
0.0 Job Meetings																					
0.1 Does your company discuss environmental issues at regular job meetings	5	3.5	3.5	3.75	3.75	4	Δ	3	2	3.5	3.5	3	3	Δ	4	Ι Δ	4	3.5	3.5	2.5	2.5
1.0 Planned Environmental Audits and Inspections				5.75		Incomplete also				2.3	3.3		and the second	The second second				3.3	3.5		6,3
1.1 Does your company's environmental program outline the requirements for Supervisors and	5	4	4	3.75	3.75	4	4	4	4	4	4	2	3	4	4	4	4	3.5	3.5	2.5	2.5
nployees to conduct regular environmental inspections of work conditions at the worksite?				5.75	3.70	4	4	44	4	:4	4	3	3	4		4.		3.3	3.3	2.5	2.3
1.2 Does your company's environmental program require the prompt reporting of hazardous conditions	5	4	4	3.75	3.75	0	0	4	4	4	4	3	3	4	4	4	4	3.5	3.5	3.5	3.5
nd spill incidents at the worksite/s?		(40)		NA 54.755				4000										1,1000			
core	100	65	.25	68	.75	76	5.00	71	.50	7	9.50	60	.00	80.	50	78	3.00	70	0.50	4	3.50
	Percentage	65.	25%	68.	75%	76	.00%	71.	50%	79	.50%	60.	00%	80.5	50%	78	.00%	70	.50%	48	.50%

Note: Abengoa was scored using the questionnaire and backup information from CT0319. Most backup information provided was actually that of Inabensa, eventhough insabensa provided their own responses to the Questionnaire. If Abengoa responded yes, however didn't provide backup, they were scored 2.5. Abengoa's and Inabensa's scores were averaged to get the final score, individual scores are included in hidden columns

Note: Powertel filled out the correct questionnaire, however backup information was taken from CT0319 Pre-Qual and wasn't complete. All questions that were answered "yes", but no backup provided were scored as 2.5.

Note: RS Line and EC Source scores were averaged to get the final score. Individual scores are included in hidden columns

nalcor energy LOWER CHURCHILL PROJECT

Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

PHASE I: QUALITY SCORING SHEET

Quality Scoring Matrix

Package Name:

Construction of 350kV HVdc Transmission Line - Section 1

Package No.:

CT0327

Project : Scored By: 505573 Ken Morrison

Date: 14-Jan-13

Scoring Guide:

0 - Question not answered or no relevant information provided in response

1 - Response does not meet key Criteria

2 - Response only meets a few of the key criteria

3 - Response meets a majority of the key criteria

4 - Response meets all key criteria

5 - Response meets and exceeds key criteria

	Question	ABENGOA,	/INABENSA	BAR	NARD	KENNY COI	NSTRUCTION	RS LINE/	EC SOURCE	POW	ERTEL	ISOLUX-	-CORSAN	TRANSEL	EC-ARNO	PETER	KIEWIT	EMERA	UTILITIES	VALARD CO	NSTRUCTION
	Weight (%)	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score	Answer	Score
Quality Part A - To be completed if Applicant	has a registere	ed Quality M	anagement S	system (QM:	5)				10000000												
Q1. Does Applicant have a registered Quality Management System? If "yes", was a certificate of registration provided?	50	4	40		0		0	×	0	4	40	3.3	33	4	40	4	40		0		0
Q2. If Applicant has a registered Quality Management System, did they provide a Table of Contents of thier Quality Manual?	50	4	40		0		0		0	4	40	4	40	4	40	3	30		0		0
Score Part A	100	80	367(23)		.00		.00	.000	.00	80	.00	73	.00	80	00	70	.00	0.	00	0.	.00
	Percentage	80.0	00%	0.	00%	0.0	00%	0.0	00%	80.	00%	73.	00%	80.0	00%	70.	00%	0.0	00%	0.0	00%
Quality Part B - To be completed if Applicant	"does not" ha	ve a registere	ed QMS						WEAR SAME												
Q3. Please explain how your organization controls its processes to ensure that you meet the customer's requirements.	15		0	4	12	4	12	3.5	10.5		0		0		0		0	4	12	4	12
Q4. Are there written procedures for your core processes?	15		0	4	12	4	12	4	12		0		0		0		0	4	12	4	12
Q5. How do you ensure that your main subcontractors/subsuppliers meet specified requirements (including requirements for Quality)?	15		0	3	9	3.5	10.5	4	12		0		0		0		0	3	9	3	9
Q6. What are your processes for addressing problems and opportunities for improvement?	10		0	4	8	3	6	3	6		0		0		0		0	4	8	3.6	7.2
Q7. Do you have a documented audit schedule for both internal and external audits?	10		0	4	8	2	4	2	4		0	5X	0		0	.5	0	3	4.8	₈ 3	6
Q8. What is your process for responding to customer complaints or corrective action requests?	10		0	3	6	3.5	7	3	6		0		0		0		0	3	6	1	2
Q9. Describe your process for investigating the root cause of problems and implementing effective corrective action.	10		0	3	6	3.5	7	3	6		0		0		0		0	4	8	3.3	6.6
Q10. Is there a procedure for management of hard copy and electronic records?	10		0	4	8	4	8	4	8		0		0		0		0	3	6	3	6
Q11. Please provide contact information for two client references and details of products or services provided.	5		0	4	4	4	4	0	0		0		0		0		0	0	0	0	0
Score Part B	100	0.0	NAME OF TAXABLE PARTY.		3.00).50	2000	.50	0.	00	0.	00	0.	00	0.	00	65	.80	60	.80
	Percentage	80.0	00%	73.	.00%	70.	50%	64.	64.50%		00%	73.00%		80.00%		70.00%		65.80%		60.80%	

Quality questionnaires were provided by Kenny Construction and Barnard. No quality questionnaires were provided by INABENSA or EC SOURCE, however, INABENSA provided an ISO 9001:2008 certificate and quality manual table of contents which are prerequisites for qualification. EC SOURCE provided a 686 page compilation of information including the technical questionnaire and copious detail on their environmental management and safety management programs, also provided was a Quality Control Manual. While they did not provide a formal response to the quality questionnaire, I reviewed the information provided to ascertain their approach to quality. It was evident that they provide quality management positions in their project organizational charts and make sufficient reference to quality processes such as supplier quality assessments in the procurement process, preventive and corrective actions processes and written procedures for core processes to allow evaluation for the EOI process. Pre-qualification responses from CT0319 were confirmed and added for POWERTEL UTILITIES, ISOLUX-CORSAN, TRANSELEC-ARNO, EMERA, VALARD CONSTRUCTION and PETER KEIWIT INFRASTRUCTURE.

nalcor	Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
energy LOWER CHURCHILL PROJECT	CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

CONTRACTOR PRE-QUALIFICATON SUBMISSIONS (E-FILES)



APPLICATION FOR BIDDER SELECTION

Date: December 6th, 2012

From:

VALARD CONSTRUCTION LP UNIT #5 - THIRD FLOOR 1697 BRUNSWICK STREET

HALIFAX, NS B31 2G3 **CANADA**

To:

Nalcor Energy - Lower Churchill Project

c/o SNC-Lavalin Inc.

350 Torbay Road Plaza, Suite 2

St. John's, NL A1A 4E1 Canada

Attention:

Micah Sze

Project No:

505573

Package No:

CT0327

Package Title:

Construction of 350kV HVdc Transmission Line Section 1

Dear Mr. Sze:

VALARD CONSTRUCTION LP hereby agree that:

(Official Name of Applicant)

- 1. After carefully examining the Bidder Selection documentation, we do hereby submit our Application for Bidder Selection to be a Bidder for the above referenced Package and enclose the following appendices as part of our Bidder Selection submittal:
 - Appendix 1 Commercial Questionnaire
 - Appendix 2 Technical Capability Questionnaire
 - Appendix 3 Health and Safety Questionnaire
 - Appendix 4 Environmental Questionnaire
 - Appendix 5 Quality Questionnaire



2.	response is in we con Attachmen	e not \boxtimes submitting this Application as a Joint Venture or Partnership. Where this the affirmative (check each box as appropriate): Infirm that we are the Lead Partner, and that each of the partners is identified in the state of the partners is identified in the state of the partners is identified in the state of the state of the partners is identified in the state of the state
3.	The name and may be contact	d the position of our representative who is coordinating this Application, and who sted for further information, as required, is as follows:
	Name:	Vicki Marks
	Position:	VP, Eastern Canada
	E-mail:	vmarks@valard.com
	Tel:	416-455-9579 cell

- 4. We confirm that we have read and fully understood all of the information supplied with the Bidder Selection Document. In particular, we confirm that if we are invited to bid on the Lower Churchill Project:
 - we will comply with the Company's standards with respect to Health and Safety in the workplace, and fairness with respect to all bidding;
 - we will comply with the Lower Churchill Construction Project Benefits Strategy.
 - we will sign a Non-disclosure and Conflict of Interest Agreement prior to receipt of the Request for Proposal Documents.
- 5. We confirm and certify that the information submitted in this Application for Bidder Selection is true and correct.
- 6. We understand that the Engineer will need to verify information in the Application, as required, and we hereby confirm that your representatives are authorized to communicate with any person identified in the Application and Appendices.
- 7. We also confirm and acknowledge that:
 - Company and Engineer shall have no liability whatsoever, for any costs, expenses, charges or losses which we may incur or be required to expend in the preparation or presentation of this Application for Bidder Selection.
 - Our submission of this Application shall not convey any right to be included on the final Bidders List; and it will be Company's sole right to determine the final list of qualified bidders to be included on said Bidders List.
 - While the information submitted is not for general publication, it may be used as necessary for the purposes of Bidder Selection.



SIGNED on this 6th day of December, 2012
For and on behalf of:
VALARD CONSTRUCTION LP
Official name of Applicant Vicki Marks
Name and signature of authorised signing officer
VP, Eastern Canada Title
December 6th, 2012
Date
416-455-9579
Telephone No. (including country code and area code)
vmarks@valard.com
Official e-mail address of Applicant

Application For Bid (Perglectiff)
Appendix 2 – Technical Questionnaire
Package Number: CT0327

APPENDIX 2

TECHNICAL QUESTIONNAIRE

Package Number: CT0327

Package Name: Construction of 350kV HVdc Transmission Line Section 1

Applicant: VALARD CONSTRUCTION LP

Applicant Name: VICKI MARKS

Contact Phone: 416-455-9579 Email: vmarks@valard.com

CIMFP Exhibit P-01886 Application For Bid Regulective Appendix 2 – Technical Questionnaire Package Number: CT0327

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Application For Bid Reglect Appendix 2 – Technical Questionnaire
Package Number: CT0327

1.0 WORK EXPERIENCE

- 1.1 Applicant is requested to Use Form 1.1 (attached) to record previous experience. Use one sheet for each contract.
- 1.2 Applicant is requested to list all contracts undertaken in the last 5 years which are similar in nature and complexity as this Package.
- 1.3 If the Applicant is a joint venture, Applicant is requested to list for each partner of the joint venture all contracts undertaken in the last 5 years by the said partner, and which are similar in nature and complexity to the work that will be performed by that partner.

2.0 TECHNICAL SPECIFIC

2.1 The purpose of this section is to establish the Applicant's recent (post year 2000) line construction experience. Please ensure that the table provided below is filled out with the requested information, as this information will be used in the technical evaluation. Please ensure that the table is as complete as possible. The Applicant may expand the table, as required to supply the requested information, or may supply the information in a separate document. Please ensure that the information is presented in a format that is easy to assess.

Application For Bid Reglection
Appendix 2 – Technical Questionnaire
Package Number: CT0327

Table 1: Applicant's new transmission line construction experience, since year 2000															
Client/ Owner Name	Project Name/ Location	AC/DC Voltage (kV)	Line Length (km)	Single or Double Circuit	Conductor Per Phase	Conductor Size	OPGW	Guyed Steel Towers	Self-Supporting Steel Towers	Wood Poles	Start and Finish Dates	Remote Camps	Were helicopters used, if so describe	ROW Clearing	Project Value

Package Number: CT0327

2.2 Table Definitions

Client/Owner Name: Client's name and the owner of the line, if different.

Project Name/Location: The project name as known to the owner of the line and the location of the line construction.

Voltage (kV): The voltage of the line and indicate whether it was ac or dc, i.e. 400 kV dc **Line length (km):** The kilometers of the line constructed.

Single or double circuit: Indicate if the line was a single circuit (S/C) or a double circuit line (D/C).

Cond. per phase: The number of conductors per phase.

Cond. Size: The conductor size of the line.

OPGW: Whether the line had OPGW or not, if so, give a brief description the OPGW installed.

Guyed Steel Towers: Whether the line had guyed steel towers (Yes, No).

Self-supporting Steel Towers: Whether the line had self-supporting steel towers (Yes, No).

Wood Poles: Indicate whether the line had wood poles (Yes, No).

Start and Finish dates: The start and finish date of Contractor's line construction – month, Year (i.e. May 2000 to Jun 2001).

Remote Camps: Indicate whether remote camps were required and if your company had to erect and manage the camps for the crews working on the line. Please describe the buildings and facilities and general operations of the camp.

Were helicopters used, if so, describe: If helicopters were used describe their use (i.e. moving materials, moving workers, erecting towers, pulling the pilot wire, etc.).

ROW Clearing: Indicate whether the main ROW clearing was a part of Contractor's: scope of work; Contractor directly supervised the clearing contractor, or the ROW was cleared by others.

Project value: The value of your company's portion of the work.

If the Applicant's scope of work for the project had multiple lines on different structures, list each line separately in the table.

Application For Bid Regglect Appendix 2 – Technical Questionnaire
Package Number: CT0327

2.3 Technical Specific Questions

2.3.1 List the equipment with year, model, hours and whether it is owned or rented that is available to you for the construction of the transmission lines. Include any pertinent details such as capacity, size, power rating, reach, speed, etc.

Please find attached listing of Valard-owned equipment.

Our substantial fleet of transmission line construction equipment is further augmented through the use of short and long term leases as required.

It is also our practice to utilize equipment available through local companies in the vicinity of the project area in order to ensure efficiency as well as to provide economic support and involve the local community in the project activities.

In addition to Valard Construction's large fleet of equipment, we also have access to Quanta Services' equipment pool – the largest fleet of utility-specific equipment in North America.



EQUIPMENT LISTING

UNIT#	WEIGHT	YEAR	ТҮРЕ	SERIAL #
Numerous	pickup trucks a	and vans		
3161	63500 kg	1991	Freightliner Conventional	2FUYFSEB5MV377720
3163	63500 kg	1993	Ford Conventional L	1FDZU90DXPVA29971
3220	63500 kg	1997	Freightliner Conventional	1FUYFDZB4VP714931
3221	63500 kg	2003	Freightliner	1FUJA6AV23LL08958
3222	63500 kg	1995	Kenworth Construct	2NKDLB0X7SM938146
3223	63500 kg	1999	Freightliner	1FUYFDZB7XPA03472
3224	63500 kg	2004	Freightliner	1FUJA6AV74LM72269
3225	63500 kg	2004	Freightliner	1FVHALCV44DN40737
3226	63500 kg	2007	Freightliner	1FUJA6CK47DW94415
3227	63500 kg	2006	Kenworth	3WKDD40X56F987961
3228	63500 kg	2007	Kenworth T800	1XKDPBEX37J995039
3229	20000 kg	2005	Chevrolet C5500 4x4 Dually	1GBE5C3215F524711
3230	63500 kg	2005	Kenworth T800B Winch Tractor	1XKDDB0XX5R979208
3231	63500 kg	2005	Kenworth T800B Winch Tractor	1XKDDB0X15R977752
3232	63500 kg	1996	Peterbilt 378 Winch Tractor	1XPFDBOX5TD389897
3233	63500 kg	2006	Kenworth Winch Tractor	1XKWDB0X56J990898
3301	63500 kg	2000	Freightliner	1FVXJJCBXYHF61650
3303	63500 kg	1998	Freightliner	1FVXTMDB1WH921859
3304	23000 kg	1993	Western Star Conventional	2WLPCCJF3PK931897
3305	29000 kg	1998	Freightliner M. Conventional	1FVXJLCBXWH810194
3306	29000 kg	2002	International 4000 Series	1HTMKADR92H410961
3307	20000 kg	2000	International 4000 Series	1HTSCAAPXYH307810
3308	29000 kg	2006	Freightliner M2	1FVHC5CV46HV47902
3309	47500 kg	1996	Kenworth Construct	1NKDLB0X6TS941056
3310	25400 kg	1999	Freightliner M. Conventional	1FVXTWCB1XHA10870
3312	28000 kg	2007	Sterling	2FZHATDC57AY39469
3313	46500 kg	2002	International	1HTGLAHT42H538573
3315	24500 kg	1987	International S1900	1HTLDTVNXHH507267
3316	27000 kg	2008	Sterling LT8513 Picker	2FZHAWBS28AZ62305
3318	63500 kg	2001	Kenworth T800B Picker	1XKDDB0X11R963831
3319		2007	Sterling LT8501 30 Ton Crane	2FZHAWDC17AY33878
3320	28000 kg	2007	Sterling LT7501 26 Ton Crane	2FZHATDC87AY34167
3321	24300 kg	2006	Sterling LT7501 23 Ton Crane	2FZHATDCB6AU04090
3322	24300 kg	2006	Kenworth T800 23 Ton Crane	2NKDL00X86M150776
3323	27000 kg	2006	Peterbilt 335 Picker	2NPLLZ0X96M886636
3324	27000 kg	2006	Peterbilt 335 Picker	2NPLLZ0X46M886625
3325	15000 kg	2001	Sterling Acterra Flatbed Crane	2FZAAKAK81AH36998
3326	15000 kg	2001	Sterling Acterra Flatbed Crane	2FZAAKAK21AH36995
3327	15000 kg	2001	Sterling Acterra Flatbed Crane	2FZAAKAK41AH36996
3328	47200 kg	2006	Freightliner FLD120SD Tri-Drive	1FPALAVX6DV47855
3329	30300 kg	2006	Freightliner FLD120SD Tri-Drive	1FVPALAV56DU48117
3330	47500 kg	1997	Western Star 4964F Picker	2WLPDCCJ0VK947809
3331	35380 kg	2010	Peterbilt 365 Tri Drive Crane Truck	1NPSX0EX9AD104094
3332	63500 kg	2006	Kenworth T800B Winch Tractor	1XKDDB0X86R986692
3333	25500 kg	2006	Sterling Acterra Picker Truck	2FZXCN0096AV76317
3334	35000 kg	2010	Mack GU713 Granite 40 ton Crane	1M2AX04C6AM007996
3335	26400 kg	2009	Sterling LT8513 23 Ton Boom Truck	2FZHAWCY89AAD9958

UNIT#	WEIGHT	YEAR	TYPE	SERIAL#
3336	26400 kg	2009	Sterling LT8513 23 Ton Boom Truck	2FZHAWCY99AAD9953
3338	63500 kg	2007	Kenworth T800 Tractor	1XKDD40X57R930898
3339	63500 kg	2007	Kenworth T800 Tri-Drive Winch Tractor	1XKDPBEX67J930377
3340	3	2000	Kenworth T800B w/Hiab 9.5 Ton Boom Truck	1NKDL60X0YR958554
23-S-797	24300 kg	2007	Kenworth T800 23 Ton Crane	1NKDL00X17J211703
4135	_ 1000 Mg	2008	Magnum Utility Trailer	5AJGS13128B001489
4191		1998	Homemade pole Trailer	T419A
4225		2004	Freightliner Peerless 25T Trailer	2AT6071884M102659
4335		1995	Easy Ride Jeep Trailer	2N9M6E402SE016132
4401		1975	Pole Trailer	T401
4401		1976	Pole Trailer	T402
4403		1995	Homemade Trailer	T403
4404		1975	Pole Trailer	T404
4405		1980	Pole Trailer	T405
4407		1964	Pole Trailer	832R265403
4407A		2002	LodeKing SD953-3 Trailer	2LDSD533729037670
4408		1964	Pole Trailer	DTE16962
4410		1967	Fruehauf Trailer	AB464242
4413		1975	Homemade Trailer	NONE
4414		1972	Transcraft Trailer	146404
4415		1972	Transcraft Trailer	TC3743
4416		1979	Trailmobile Trailer	T94987
4417			Peerless Page Pole Trailer	B79-277701
4418		1973	Trans Flat Trailer	TC8738
4420		2000	Homemade Trailer	T420A
4422		1988	Homemade Trailer	4422
4425				
4426		1980	Fruehauf Trailer	NONE
4427		1980	Factory Made Trailer	6220030
4428		1969	Can Car Utility Trailer	69W3096
4429		1981	Trailmobile Van PSV Trailer	14022021001
4430		1990	Timb Puller Trailer	T430
4432		1995	Flat Deck Utility Trailer	83019
4434		2000	Homemade Trailer	T434-00
4435		1974	ts Trailer	90577000463
4437		1976	Homemade Trailer	SASK9107700097
4438		1975	Homemade Trailer	SK400045243
4439		1991	Tension Stringing Trailer	1T92S0421MS268073
4440		1977	Craig Trailer	C17402
4442		1995	Aspen fg40-3 Trailer	2A9LB4031SS037511
4444		1995	K & O 30ft Trailer	1K9FL2961SH048087
4445		2005	Doepker Tridem Scissor Trailer	2DE5NSZ3061018240
4446		1980	Homemade PSV Trailer	SS003
4448		1981		
			Homemade Utility Trailer Homemade Trailer	WP33
4449		1991		ELSXW392
4450		1979	Homemade Trailer	T771009
4451		1995	Homemade ATV Flat Utility Trailer	T451
4453		1961	Nodwell RNT110 Trailer	66110019
4456		2003	Homemade Trailer	445603
4457		2003	Homemade Trailer	445703
4458		2003	Homemade Trailer	445803
4459		1981	Weldex Pole Trailer	445903
4460		1986	Craig 322gt25k Trailer	CRABB55D2E1025062
4461		1973	West PSV Trailer	2061T73
4462		1986	Laroche	5662T
		1000	A and I DOV/ Tabile is	00010
4463		1983	Argyl PSV Trailer	83019

Equipment Listing 2 of 11

UNIT#	WEIGHT	YEAR	TYPE	SERIAL#
4465		2003	Homemade Trailer	446503
4466		1975	Homemade Trailer	28755
4467		1979	Opsco Platform PSV Trailer	87942
4475		1992	Timb dp6 Trailer	2T9A31F33NA022003
4476		1991	Timb Q10 Trailer	2T9G02E38MA022054
4477		1986	Reel Trailer	2L9RA44T8G1018001
4479		1997	Rainbow 2 place Trailer	2R92P1214U2625257
4480		1980	Homemade pole Trailer	448000
4487		2001	Timberline Puller Trailer	1T92S04291S265270
4488		1961	Elias Power Cable Trailer	2418
4495		1976	Homemade Trailer	NONE
4497		1993	Goertzen Trailer	2G91B182XP0006481
4499		1998	Homemade pole Trailer	T499
4501		1980	2 Drum Tensioner Homemade Trailer	1L9DF14I0P1109033
4502		2001	Homemade Trailer	450201
4503		1988	Ardco Trailer	8803RT01875
4506		1976	Homemade Trailer	817
4507		1976	Homemade Trailer	814
4508		1975	Ditchwitch	7111
4509		1981	Wilox Trailer (Lb-28)	79WRL102
4510		1981	Fruehauf T-A Van Trailer	2H8V04221BS090303
4512		1970	Homemade Trailer	451206
4515		1975	Homemade pole Trailer	4515
4516		1982	Argyl Trailer	82015
4517		2004	Ubuilt Pole Trailer	2AT4081124U100759
4519		1982	Scona 8' X 13' Tandem Pintle Hitch Trailer	OBL
4520		2005	PJ 31' Tri Pintle Hitch Equipment Trailer	4P5PH363X51065441
4521		2007	Interstate IAS10227TA4 27' T/A Cargo Van Trailer	4RACS27237N049617
4522		2006	Norte 7' x 18' T/A Utility Trailer	3BZHP18246C006686
4523		2006	Cart-a-Way CMT100 Tandem Trailer	4MFMA15296M002399
4524		2010	U Built Pole Utility Trailer	2ATA05149AU106825
4525		2010	Tandem Axle Converter Dolly	27170314970100023
4526		2010	Loadmax Tandem Flatdeck	5L8PH2629A1019838
4527R		2001	TSE International UP85B Trailer	1T92S09172S268429
4528		2011	Mirage MXL714TA2 14 ft Tandem Axle Trailer	SM3BE1421B1045487
4602		1994	Rainbow Utility Trailer	2R9CH1623P1625149
4603		2004	Reel Trailer	T4603
4604		2004	Ubuilt Reel Trailer	2AT4053134U300061
4604		-	SWS qfb283	
4606		2002	Š	2S9GB283826090356
		2004	Trailtech CEL270	2CUL31G9X42015317
4608		1997	Trail Tech H270 Trailer	CU23AEA2V2002023 2CU23ARA532012827
4609		2003	Trailtech H-270 Trailer	
4610		2005	Trailtech L270-18 Trailer	2CU138JA652018560
4611		2006	Doepker SN8381S Trailer	2DESNSZ3461018855
4614		1970	Can-Car Van	C7906
4616		1987	Fruehauf Van	2H8V04826HS002426
4617		2006	Lakeland Flatdeck Trailer	2L9FC42766T124012
4619		1990	Rotec Trailer	2R9ML4625MN039514
4620		1978	Tandem Trailer	2AT610318AU201224
4621		1990	Home Built Reel Trailer	2AT610262LU201221
4624		1979	King Trailer	2764082
4625		1987	Trailmobile Converter Dolly	1PT0YR0G5H9007978
4626		2010	Rainbow Pole Trailer	2RGBU1418A1000747
4787		2007	Scona TLB Trailer	2E9L50F3773003075
4788		2008	Doepker Scissorneck Trailer	2DESNSZ3381020308
4789		1993	Ingersoll-Rand Compressor Utility Trailer	220116UKC328
4791		1	4 Drum Cable Winder	M13472

Equipment Listing 3 of 11

UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
4792		2003	SWS CH18252SU	2S9CH182133090314
4793		2003	SWS Beaver Tail Gooseneck Trailer	AB464343
4794		1999	Rainbow Ski Doo Utility Trailer	2R94P223X1625039
4795			2 Reel Trailer	74503
4796		2002	SWS Beaver Tail Trailer	2S9PB322X25090841
4797			HCT S/A Cable Reel Trailer	HCT200
4800		2008	Southland SL270-14HY14' Dump Trailer	2S9JM239X81019693
4801		1992	Scona Pole Trailer	2E9Y15C21N3003456
4802		2002	Rainbow Utility Trailer	2R2P121321625317
4803		1993	Scona 8' X 16' Extendable Pole Trailer	2E9U15C27P3003487
4804		1992	Scona 8' X 16' Extendable Pole Trailer	2E9U15D2XN3003429
4805		1992	Scona 8' X 16' Extendable Pole Trailer	2E9U15C23N3003457
4806		1989	Saube Pintle Hitch Reel Trailer	1F9RC1412KV048311
4807		1994	Custombuilt 21' Triaxle Single Drop Trailer	0024774
4808		2008	Ubuilt pole trailer	2AT8030478U104456
4809		2008	Ubuilt pole trailer	2AT8030498U104457
4810		2008	Ubuilt pole trailer	2AT8030408U104458
4811		2007	Manac Tridem Dropdeck Trailer	2M513161571113747
4812		2008	Continental Car Utility Trailer	5NHUCC6228T607382
4813		2008	BWS 21XHD Tandem Axle Trailer	2B921TT2381001378
4814		2007	Trailtech Prospector 24' Equipment Trailer	2CU4BARL372021089
4815		2002	Scona 50 Ton 25' Scissorneck Trailer	2E9L50F3823003305
4816		1998	Scona Jeep	2E9C40C28W3003888
4817		1994	Gerry's LB50 50 Ton Tridem Lowboy	2A9LB5030RS037175
4818		2008	Norte 7X18 FT Utility Trailer	3BZHP18258C006439
4819		2004	Gerry's LDDCRS S/A Booster	2A9TD10194N125201
4820		2005	Trailtech Car Hauler	2CUL2TJ9152017840
4821		2008	Ubuilt Pole Trailer	2AT8090858U105224
4823		2008	Ubuilt Pole Trailer	2AT8090818U105222
4824		1990	Homemade Tandem Trailer	2AT810228LU105325
4825		1987	Sherman & Reilly PT-2766 Puller Tensioner	123WM1310K1P06722
4826		2008	Trail Pro AAEQ22 Equipment Trailer	2T9EC73768T166116
4827		2003	Sherman & Reilly T/A Bullwheel Tension Trailer	123WM192531T16194
4828		2002	Gerry's 50 Ton Double Drop Tridem Lowboy	2A9LB50392N125050
4829		2005	Hi Deck Flatbed Trailer	4J6HD15265B074882
4830		1997	Manac Tridem Hiboy Trailer	2M5131612V1043153
4831		1996	Columbia Remtec Inc Crt-9 Reel Trailer	2C9FLD1B9T1026009
4832		1978	Fruehauf 45' x 8'6" Trailer	DXY768801
4833		1996	Scona Pole Trailer	T84PLE1013
4835		1990	Raytel Horizontal Trailer	2R9AAS9S9J1014124
4836		1990	Scona Trombone Trailer	T91UT391
4837		2009	Load Trail LTEQ20	4ZECH202991065905
4837	+	2009	RT 12 Ft Tandem Axle Dump Trailer	2R9US32D74W682381
4840		2004	Gerry's 40 Ton Scissorneck Tridem Trailer	2A9LB40303N125093
4841		2003	Doepker 53' Tridem Flat Deck Hiboy	
				2DEHBFZ3371020527
4842		2006	Manac 53' Tridem Flat Deck Hiboy	2M513161761109505
4843			Doepker 40 Ton Tri Scissorneck Lowboy	2DESNSZ3271020010
4844		2005	ETM 40 Ton Tri Scissorneck Lowboy	2N9LB40335E065045
4845		2008	Tow Master 5th Wheel 16' Tandem Dump Trailer	4KNFT16288L160273
4846		2002	Homemade Tandem Axle Reel Trailer	RLT01
4847		2007	Roadmaster Tridem Hiboy Trailer	2T9FA533271011195
4848		2009	Trailtech P20KPHBT	2CU4BARL892027544
4849		2009	MFG DT 610-10K Dump Trailer	2CPUSB2D79A013629
4850		2009	MFG DT 714-14K Dump Trailer	2CPUSD2F49A013617
4851		2009	GCT 13Ton Pole Trailer	08199
4852		2007	Starlite 16 FT T/A Enclosed Cargo Trailer	46YCP162571079392
4853		2005	Gerry's Tridem Scissorneck Lowboy	2K9LB35375L052115

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UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
4854			Gerry's TD202SS Tandem Axle Steering Booster	2A9TD2022YN125271
4855			Aspen TD101SS Single Axle Booster	2A9TD1018YN125308
4856		2001	Manac 53' Tridem Step Deck Trailer	2M513161911075222
4857		2009	Load Trail 18' Tandem Trailer	4ZECH182491067852
4858		2010	Homemade Pole Trailer	2ATA07091AU107072
4859			Homemade Pole Trailer	2ATA07098AU107070
4860			Homemade Pole Trailer	2ATA0709XAU107071
4861		2002	Manac 48 Ft Tri Trombone Stepdeck Trailer	2M513146521080904
4862			Witzco RG50 Tridem Double Drop Lowboy Trailer	1WBA11F326S000286
4863		1999	Thruway 51 Ft Tridem Trombone Step Deck Trailer	2T9DF5131X1011202
5001	24500 kg	2005	International 4000 Series	1HTMKADR15H111646
5002	24500 kg	2005	International 4000 Series	1HTMKADR35H111647
5005	24500 kg	2005	International 4000 Series	1HTMKADR55H111648
5006	24500 kg	2005	International 4000 Series	1HTMKADR75H111649
5009	15876 kg	2002	GMC C Series	1GDP7H1C72J508508
5011	29000 kg	1990	GMC Kodiak	1GDT7H4J3LJ610513
5015	17999 kg	2002	GMC C Series	1GDP7H1C62J509830
5016	25900 kg	2003	GMC Topkick	1GDP8J1CX3F511931
5017	17000 kg	2003	International	1HTMKADR33H601566
5018	26000 kg	2003	International 4000 Series	1HTMKADR53H601567
5019	25900 kg	2003	International 4000 Series	1HTMKADR73H601568
5020	24500 kg	2003	International 4000 Series	1HTMKADR93H601569
5021	17000 kg	1992	International 4000 Series	1HTSDNZR5NH428850
5022	24500 kg	2006	International MA035	1HTMKAZR76H184143
5024	25000 kg	1985	International S Series	1HTLKTVR1FHA62040
5025	35500 kg	1991	WhiteGMC Conventional	4V2JABME5MR810175
5026	26353 kg	1991	WhiteGMC Conventional	4V2JABME6MN809933
5027	24500 kg	2006	International 4400	1HTMKAZR56H184142
5028	24500 kg	2006	International 4000 Series	1HTMKAZR96H184144
5029	24500 kg	2006	International 4000 Series	1HTMKAZR06H184145
5030	16000 kg	1992	International 4000 Series	1HTSDNSN9NH428177
5032	24500 kg	2008	International 4000 Series	1HTMKAAR68H647405
5033	24500 kg	2008	International 4000 Series	1HTMKAAR88H647406
5034	24500 kg	2008	International 4000 Series	1HTMKAARX8H647407
5035	24500 kg	2008	International 4000 Series	1HTMKAAR18H647408
5036	29000 kg	1995	International 6000 Series	1HTSHADTXSH695235
5037	39500 kg	2001	Freightliner FL80 Mud Truck	1FVHBHB501HH69659
5038	24500 kg	2001	Sterling Acterra	2FZACHBSX8AAD1251
5039	24500 kg	2008	Sterling Acterra Sterling Acterra	2FZACHBS38AAD1253
5040		2008	Sterling Acterra Sterling Acterra	2FZACHBS18AAD1252
5040	24500 kg	2008		2FZACHBS18AAD1252 2FZACHBS58AAD1254
5041	24500 kg	2008	Sterling Actors	2FZACHBS78AAD1255
5042	24500 kg	2008	Sterling Acterra Sterling Acterra	
	24500 kg	-	Š	2FZACHBS98AAD1256
5044	23000 kg	2001	International 4000 Series Mud Truck	1HTSHAAR41H323512
5045	24300 kg	2005	International 7400 Dump Truck	1HTWGAZR05J156539
5046	24300 kg	2005	International 7400 Dump Truck	1HTWGAZR95J156538
5047	32500 kg	1993	International 4900	1HTSHN2R9PH484744
5048	28000 kg	1990	Freightliner Bucket Truck	1FVXZWYB3LH443153
5049	14500 kg	1994	International 4900 Bucket Truck	1HTSDAAR4TH226003
5050	14500 kg	1988	GMC Topkick Bucket Truck	1GDP7HIJ6LJ609992
5051	40000 kg	1994	Peterbilt 357 Water Truck	1XPAD69XXRD349456
5107	23587 kg	1999	GMC C Series	1GDT7H4C6XJ511997
5133	14700 kg	1986	International S Series	1HTLDTVR4GHA49388
5137	24000 kg	1988	International S Series	1HTLDTVN0JH604922
5143	16000 kg	1997	Freightliner Conventional	1FV3HFAA5VH779831
5145	24800 kg	1999	GMC C Series	1GDT7H4C4XJ509648
5183	23500 kg	1993	GMC Topkick	1GDP7H1JXPJ503471

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UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
5195	26100 kg	1990	International S Series	1HTGGGRT1LH688406
5196	13000 kg	1991	GMC Kodiak	1GDM7H1M9MJ513224
5198	22900 kg	1985	International S Series	1HTLDTVR8FHA58044
5206	17690 kg	1986	Ford 8000	1FDYK80U0GVA15718
5207	32500 kg	1989	International 2000 Bucket Truck	1HTGHZ3T9KH694549
5208R	15000 kg	2007	Ford F750	3FRXF75T27V514798
5212	24500 kg	2001	International 4700 Single Axle	1HTSCABN81H293408
5213	24000 kg	2001	International 4700 Single Axle	1HTSCABN61H360782
5215	29000 kg	2010	International 4400 Series	1HTMSAARXAH174405
5216	24500 kg	2010	International 4400 Series	1HTMSAAR1AH174406
5217	25000 kg	2010	International 4400 Series	1HTMKAAR3AH174407
5218	25000 kg	2010	International 4400 Series	1HTMKAAR5AH174408
5219	25000 kg	2007	Kenworth Construct Vaccum Truck	1NKDLU0XX7R994996
5220	24000 kg	2005	Kenworth Construct Vaccum Truck	2NKMHZ7X05M977441
5221	44000 kg	2009	Kenworth T800B Hydrovac	1NKDX40X89R940801
5222	41000 kg	1999	Western Star 4986FX Mud Truck	2WLPSDCJ4XK956933
5224	24494 kg	2010	International Digger	1HTWNAAR0AJ242820
5225	24500 kg	2011	International Digger	1HTNKAAR7BH289898
5226	32000 kg	2011	International Digger	1HTMSAAR7BH289903
5227	32000 kg	2011	International Digger	1HTMSAAR9BH289904
5228	24500 kg	2007	International 4300	1HTMMAAN17H438353
5229	24500 kg	2007	International 4300 4X2	1HTMMAAN17H438398
5230	24500 kg	2007	Ford F750	3FRXF75T07V514752
5231	14968 kg	2007	Ford F750	3FRXF75T47V507383
5232	14968 kg	2007	Ford F750	3FRXF75T67V514786
5232	14900 kg	2007	Ford F750	3FRXF75T07V507476
5234	15000 kg	2007	International 4300	1HTMMAAN76H346730
	15000 kg	2007		1HTMKAZR87H393375
5400 5401	24500 kg 24500 kg	2007	International 4000 Series	
			International 4000 Series	1HTMKAZRX7H393376
5402	25000 kg	2007	International 4000 Series	1HTMKAZR37H425889
5403	25000 kg	2007	International 4000 Series	1HTMKAZRX7H425890
5406	26000 kg	1991	International SF267	1HTGLGCR9MH303913
5407	14600 kg	1987	International S Series	1HTLDTVN1HH507268
5409	27000 kg	1992	International 4900	1HTSHN2R4NH454788
5410	38500 kg	1992	International	1HTSHN2R2NH454787
5411	30000 kg	1991	International	1HTGLA6R3MH381032
5413	32500 kg	1996	Freightliner FL80 Digger	1FUXJLBBXTL688253
5414	46500 kg	2009	International 4400 6X4 Digger	1HTMSAAR3AH223041
6110		2005	Brushcutter GT-25	BCT25051061C
6111		1976	T.V.S 1000 Single cab Track Vehicle	76749
6113		1971	FN 110 Nodwell	714110465
6114		1984	Hagg BV206DN	ADE1742
6115		1985	Hagglund BV206 ATV	ADE2117
6116			RN110B Nodwell	61373
6117			Bombardier SV73 Crew Carrier ATV	C6313F19HB
6118		1964	Nodwell RN110	64746598A
6119		1969	Nodwell RN110	C38003
6120		1978	Bombardier Little Nodwell	1678-76
6121		1977	Nodwell RN60	29414
6129		1964	Nodwell RN110	63646
6130			Nodwell	70-3-110
6131		1	Nodwell FN160 Flextrac	1980-160FN
6132		1964	Nodwell FN160 Flextrac ATV	91160222
6133			Nodwell FN110	176C178
6134			Nodwell RN400	71400002
6150		1985	Delta TeriFlex Rubber Tired ATV Double Bucket	1009002
6201		1981	Foremost Chiefton Four Trax	811319

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UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
6202		1981	Foremost Chiefton Four Trax	911709
6203		1981	Foremost Chiefton Four Trax	811220
6204		1974	Foremost Pioneer ATV	77782
6205			Foremost Super Yukon	74542
6206			Terra Flex TF605 ATV Wheeled	60S40182D025
6209		1978	Go-Track Nodwell	889
6210		1979	Hillbrand 6x6	T905102568
6211		1984	Foremost FN110 Track Crane ATV	841477
6212		2007	Argo Avenger	2DGSS0BT47NV25425
6221		1967	Nodwell RN110	72-110-233
6222		1001	Go-Track GT-800 Nodwell	02-04-168
6320		1999	Honda TE226X ATV Wheeled	478TE2265X4000549
6323		2000	Argo Conquest ATV Wheeled	CB17271
6324		2003	Honda TE2263 ATV Wheeled	478TE226434400175
6325		2003	Honda TE2263 ATV Wheeled	478TE226434400015
6326		2000	No File	47012220404400010
6327			No File	
6328		1998	Argo Conquest ATV Wheeled	CB14804
6329		2006	Argo Avenger	2DGLS0BT16NV24610
6330		2009	Artic Cat Prowler	4UF09MPVX9T303869
6331		2003	Artic Cat 1 Towler Artic Cat 500 ATV	4UF03ATV33T230860
6332		2003	Bombardier BR400 Plus Snow Cat	831940457
6333		2005	Kawasaki ATV	JK1AFDB115B508886
6334		2009	Kawasaki ATV	JK1AFCR149B504031
6335		2009	Artic Cat Prowler ATV	4UF09MPVX9T302589
6336		2009	Artic Cat Prowler ATV	4UF09MPVX9T302365
6337		2009	Arctic Cat Prowler 700XTX ATV	4UF09MPVX9T302351
6338		2010	Arctic Cat Prowler 700X1X ATV Arctic Cat Prowler 700H1 ATV	4UF10MPVXAT303485
6339		2010	Kawasaki 610 Mule ATV	JK1AFEA15AB549863
6401		2010	No File	JKTAFEATSABS4980S
6403		1984	Nodwell RN110	77-200-326
6404		2008	Honda ATV	1HFTE352384100856
6405		2008	Honda ATV	1HFTE352364100656
6406		2005		BCT25051045C
6407		1976	Gyro-Trac GT25 Mulcher Bombardier B15T Nodwell ATV	0125760002
		1976	Foremost Delta 3B 6X6 Swamp Buggy w/Digger	0125760002
6408		2040		2004
6408C		2010	National Hydraulic 690E2 Crane	3001
6409		2009	Polaris Ranger 500 ATV	4XAHH50A392874613
6410		2009	Polaris Ranger 500 ATV	4XAHH50A392876815
6411		2009	Honda TE3189 Quad ATV	1HFTE318794400332
6412			Foremost Delta 100 ATV	861565
7030		2002	Loader not in FM	2)/2050
7298		2002	Ditch Witch JT2720M1 Jet Trac	2V2658
7299		4000	Ditch Witch JT1220M1 Directional Drill	CMWJ1220P60000092
7301		1999	Ditch Witch JT4020 Directional Drill	2\$2310
7302		1998	Ditch Witch JT4020 Directional Drill	2R2860
7303		2008	Ditch Witch JT4020M1 Directional Drill	CMWJ40T3T80000079
7309		1991	Case 1845C Skidsteer	JAF0079553
7310		1996	Bobcat Skidsteer	509325864
7314		1998	Ditch Witch 7610 Trencher	5R0261
7317		1	Ditch Witch 7610 Trencher	5P0295
7318		1000	No File	044.151454
7322		1996	John Deere 444G Loader	CK444GX002400
7326			No File	
7327		2001	Case 1845C Skidsteer	JAF0332308
7329			Mobile Treatment Centre	FMC1380598
7330			Mobile Treatment Centre	FMC2010102

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UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
7332		2001	John Deere 310SG Loader/Backhoe	T0310SG900815
7333		2001	John Deere 200LC Excavator	FF0200X501660
7334		1990	Lerio Air Compressor	C211622
7339		2002	John Deere 310SG Loader/Backhoe	T0310SG906726
7340		2002	John Deere 310SG Loader/Backhoe	T0310SG908976
7341		2002	John Deere 310SG Loader/Backhoe	T0310SG906228
7344		2004	John Deere 310SG Loader/Backhoe	T0310SG937268
7345		2001	John Deere 310SG Loader/Backhoe	T0310SG897155
7346			Case XT Skidsteer	JAF401567
7348		2005	John Deere 544J Loader	DW544JP600082
7350		2005	John Deere 750J Crawler	T0750JX116124
7351		2004	John Deere 310SG Loader/Backhoe	T0310SG942297
7352		2004	John Deere 310SG Loader/Backhoe	T0310SG940815
7353		2005	John Deere 310SG Loader/Backhoe	T0310SG948387
7354		2005	John Deere 310SG Loader/Backhoe	T0310SG948380
7355		2006	John Deere 700J Crawler	T0700JX120466
7357		2005	John Deere 750 C LGP Crawler	T0750CX941768
7358		2001	Ditch Witch RT90 Trencher	5V0276
7359		2006	Ditch Witch RT95M Trencher	CMWRT95MK60000082
7360		2000	John Deere 444H Wheel Loader	DW444HX574861
7361		2006	John Deere 544J Wheel Loader	DW544JZ607773
7363		2005	John Deere 200CLC Excavator	FF200CX505502
7364		2006	John Deere 700J Crawler Dozer	T0700JX120452
7365		2006	John Deere 310SG Loader/Backhoe	T0310SG956636
7366		2006	John Deere 700J Crawler	DW624JP601391
7367		2006	John Deere 200CLC Excavator	FF200CX507738
7370		2006	John Deere 444J Wheel Loader	DW444JP602254
7370		2006	No File	DW444JP602254
7371		2006	John Deere 310SG Loader/Backhoe	T0310SG956766
		_		FF200CX506497
7373 7374		2005	John Deere 200C LC Hydraulic Excavator John Deere 310SG Loader/Backhoe	
		2006	John Deere 200CLC Excavator	T0310SG953835
7375 7377		2005	John Deere 240D LC Excavator	FF200CX507029 FF240DX605063
7378		2003	Case Backhoe 580SM	JJG0374055
7379		2003	John Deere 200CLC Excavator	FF200CX507734
7379		2006		T0310SG956636
			John Deere 310SG Loader/Backhoe	
7382		2006	John Deere 410G Loader/Backhoe	T0410GX958201
7383		2006	John Deere 444J Wheel Loader	DW444JZ608335
7384		2006	John Deere 240D LC Excavator	FF240DX 605108
7386A			John Deere 200CLC Excavator - Neil Campbells	FF200CX505514
7389		0004	Hyster H40XL Forklift	C177B08606N
7391		2001	JLG 450AJ Articulated Boom Lift	0300063107
7392		2009	John Deere 310SJ Loader/Backhoe	T0310SJ175728
7393		2004	John Deere 544H Wheel Loader	DW544HX587952
7394		2007	John Deere 700J Crawler Dozer	T0700JX149733
7395		2004	John Deere 270C LC Excavator	7071372
7396		2007	John Deere CT332 Skidsteer Loader	T0332TB149049
7397			Case 60XT Skidsteer Loader	JAF0350189
7398			Bomag DW141AC Double Drum Packer	101490110119
7399		2005	Skyjack Platform Manlift	617194
7403		2003	John Deere TC44H Wheel Loader	DWTC44HX587652
7408		2007	John Deere 310SG Loader/Backhoe	T0310SG962721
7410		2006	John Deere 310SG Loader/Backhoe	T0310SG956674
7411		2007	John Deere 200DLC Excavator	FF200DX510419
7412			Case Super M 580 Backhoe	JJG0374497
7413		2002	Ditch Witch RT70	T6267D221
7414			Ditch Witch 6510	65508

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UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
7415			Ditch Witch Tractor RT95	CMWRT95MK70000147
7417		2007	John Deere 310SJ Loader/Backhoe	T0310SJ147841
7419		2006	John Deere 200C LC Hydraulic Excavator	FF200CX507764
7420		2006	John Deere 544J 4WD Loader	DW544JZ604814
7422		2007	John Deere 200 DLC Excavator	FF200DX510259
7425		2007	John Deere 410J Loader/Backhoe	T0410TJ151092
7427		2007	John Deere 750JLGP Crawler	T0750JX149178
7428		2007	John Deere 624J Wheel Loader	DW624JZ613878
7431		2007	John Deere 544J Loader	DW44JP613149
7432		2007	John Deere 410J Rubber Tire Backhoe	T0410TJ151216
7433			John Deere 77BH Motor Grader	DW770BH554895
7434		2007	John Deere 200DLC Excavator	FF200DX510434
7435		2006	John Deere 450J LGP Crawler	T0450JX133872
7437		2008	John Deere 310 TJ Loader Backhoe	T0310TJ150984
7441		2006	John Deere 200C LC Hydraulic Excavator	FF200CX507078
7442		2000	Bobcat A220 Skidsteer Loader	51961137
7445		2008	Ditch Witch Hydrovac FX30	1DSB202S281702095
7446		2001	Case Skidsteer w/Loader	JAF0332692
7447		2005	John Deere 200CLC Excavator	FF200CX505515
7451		2004	Case 75XT Skidsteer Loader	JAF0380207
7452		2001	John Deere 270LC Hydraulic Excavator	FF0270X070912
7454		2006	John Deere CT322 Crawler Skidsteer Loader	T0322TB121707
7455		2002	Bobcat 463 Skidsteer Loader	520012522
7465		2002	Tamrock Ranger 700 Hydraulic Drill	J013238
7467		2001	Ditch Witch T18S 6 X15' Equipment Trailer	1DSB202S9117V2420
7468		2005	Bobcat T250 Crawler Skidsteer Loader	525613956
7469		2003	Bobcat T250 High Flow Skidsteer Loader	523111359
7470		2006	John Deere 332 Skidsteer Loader	T00332F127299
7471		2006	John Deere CT322 Crawler Skidsteer Loader	T0322TB121229
7471		1994	Ditch Witch HT100 Crawler Cable Plow	6L0074
7473		1994	Ditch Witch HT100 Crawler Cable Plow	6N0049
7474		2005	Case 60XT Skidsteer Loader	JAF410802
7475		2003	Bobcat 334 Excavator	234511311
7476		+	Bobcat 322 Excavator	224011578
7477		+	John Deere 270LC Excavator	FF270CX702451
7478		+	John Deere 444J Wheel Loader	DW444JT593163
				JCB5AGKGP71195175
7479 7480			JCB Zoom Boom Loader	
7481		2009	JCB Zoom Boom Loader John Deere 624 K Wheel Loader	SLP550BA3E1037192
		-		DW624KP624704
7482		1999	Komatsy PC200LC-6A Hydraulic Excavator	J21348
7483		2007	New Holland E70SR Mini Excavator Rubber Tracks	N6TA16081
7484		1988	Caterpillar IT12 Integrated Tool Carrier	4NC01442
7485		2002	John Deere TC54H Wheel Loader	DWTC54H583436
7486		2009	John Deere 544K Wheel Loader	DW544KZ623919
7487		2008	John Deere 750J LGP Crawler	T0750JX155300
7488		2004	Haulotte HB44J 4X4 Boom Lift	TD101855
7489		2007	Genie GS2632 Electric Scissorlift	GS320889456
7490		2007	Genie GS2032 Electric Scissorlift	GS3208089437
7491		2001	John Deere TC54H Wheel Loader	DWTC54H578646
7494		2010	John Deere 444K Wheel Loader	DW444KP622816
7497R		2003	Cat 140H Grader	CAT0140HTAPM000723
7502		2006	John Deere 750J LGP Crawler	T0750JX133862
7503R		2008	Komatsu D61PX Excavator	B45326
7504R		2009	John Deere 750J LGP Dozer	T0750JX170794
7505		2008	John Deere 200D LC Hydraulic Excavator	FF200DX511409
7507		2005	Cat D5N LGP Crawler Tractor	CAT00D5NVAKD01201
7508R			John Deere 333D Track Skidsteer	T0333DK18962

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UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
7509		2006	Daewoo G30P-3 Forklift	
7510R		2010	John Deere 444K Wheel Loader	1DW444KPCA0629687
7512R		2010	John Deere 410J Loader/Backhoe	1T0410JXCA0185003
7513R		2010	John Deere 310 SJ Loader	1T0310SJVA0188751
7903		2001	LI Q185DKE Trailer	3540X60
7905			Genie Z45/25 45' Knuckle Boom	Z452506-29760
7906		1997	Tadano TR600XL3 60 Ton Crane	545258
7907			Air Compressor 185 Diesel	366786UBQ222
7908			Air Compressor 185 Diesel	366787UBQ222
7910		2005	John Deere IR XP185W Air Compressor	4FVCBBAA65U358426
7911		2005	IR Air Compressor 185 Diesel	358426UFP222
7912			Genie Z45 PK 45' Knuckle Boom	Z452508A-38654
7913		2000	Tadano TR650XL3 65 Ton Rough Terrrain Crane	545374
7915		1999	Liebherr LTM1080 80 Ton Crane	W09474000XEL05159
7916		2007	Atlas Copco XAS185 Air Compressor	4500A10177R020477
7917		2007	Atlas Copco XAS185 Air Compressor	4500A10167R020745
7918		2009	SR65 Self Erecting Drilling Rig	3618
7919		2009	Traxxon TR-EX 2000 Hydraulic Rock Drill	TRXAA21009BB0226
7920		2008	Tadano GR800XL 80 Ton Crane	546693
7921			Liebherr LTM1200 200 Ton Crane	
8008			Loader not in FM	
8011			Trackhoe not in FM	
8100		2003	Coleman 35-40KW Portable Generator	DUG02012
8102		2001	Olympian 10-12KW Skid Mounted Generator	40662/040
8104		2003	Kubota 14KW Generator Set	W01298713
8105		2004	Northern 10X40 FT Office	104004597
8106		2000	International 8X19 FT Office Trailer	2C9HB47C2Y2044011
8107		2000	International 8X19 FT Office Trailer	2C9HB47C0Y2044010
8108		2001	Onan DGCA-4492460 50 KW 6'X12' Skid Mounted Generator	K000178466
8112			Trip Reel Skid	
8113	1		12' X 60' Skid Mount Office Trailer	260038284
8114			12' X 40' Skid Mount Office Trailer	240015949
8115			12' X 40' Skid Mount Office Trailer	240005104
8120			Multiquip DCA25USIC Gen Set	8101210
8121			12' X 60' Skid Mount Office Trailer	260016690
8122			12' X 60' Skid Mount Office Trailer	260016030
8123			12' X 40' Skid Mount Office Trailer	240027336
8124	1	2006	Magnum Pro MLT5080 Light Tower	
8125		2006	Magnum Pro MLT5080 Light Tower	
8126		2006	Magnum Pro MLT5080 Light Tower	
8127		2006	Magnum Pro MLT5080 Light Tower	
8128		2006	Magnum Pro MLT5080 Light Tower	
8129	_	2006	Magnum Pro MLT5080 Light Tower	
8130		2006	Magnum Pro MLT5080 Light Tower	
8131		2000	Magnum MLT4060 MMH Light Tower	
8132			Magnum MLT4060 MMH Light Tower	
8133			Magnum MLT4060 MMH Light Tower	
8134			Magnum MTG80 Trailer Mounted Generator	0810860
8135			Magnum MTG80 Trailer Mounted Generator	0800489
8136			Magnum MTG80 Trailer Mounted Generator	0800489
8137			Westeel Skidmounted Double Walled 4600 L Fuel Tank	0000702
8138			Custombuilt 12'X61' Skid Mounted Office Trailer	328071260
8139			46' Skid Mounted Drilll Shack	02007 1200
8140			36' Skid Mounted Drill Shack	
8141		2009	12'X60' Skid Mounted Office Trailer	260016090
8141	+	2009	FMC Medic Unit	1040107
	1	1/11/1/	LEWIN . MIRCHOTT HITT	11040107

Equipment Listing 10 of 11

UNIT#	WEIGHT	YEAR	TYPE	SERIAL #
8146			Light Plant	
8147			Atco 12'X60' Skid Mounted Office Trailer	260015953
8148			NP K Jackhammer	11021961
8149		2007	Star Industries Manlift Basket	8149
8150			Timberland K1003H 4 Bundle Tensioner	7913045
8151			Lykal 12X56 FT Skid Wellsite	LSW125611940512
8165			Homemade Track Ploe Trailer	8165
8166			Timberland K1004H 4 Drum Puller on Nodwell Trailer	7913028
8167		2006	Shanco 12X60 FT Skid Mounted Office/Sleeper	2512580992
8168		2006	Northern Steel 15000 L Skid Mounted Fuel Tank	H100813
8169		2006	Northern Steel 4328 L Skid Mounted Fuel Tank	H101060
8170			Skid Mounted Oil Fired Incinerator	
8171			Custom Built Portable Light Tower	59SR2A22
8172			Custom Built 8 Ft Sleigh	
8173			Genset 60KW	
8174			Rev Drill Series 4 Model 35	35116
8175		1982	Texoma Drill Rig 330-20	100-3182
G0111916		2008	Hogg & Davis Puller - Commercial Rental	1H91D222981011032

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2.3.2 Describe your expertise with building transmission lines in cold climate winter weather conditions.

Valard has an extensive history of completing projects during winter and in areas where work can only be done in "frozen/winter" conditions.

- 1) ATCO Electric Brintnell to Wesley Creek 240 kV, 100kms, start Jan 14/08 completed April 20/08 Northern Alberta
- 2) ATCO Electric Wesley Creek to Meikle Line. Construction of double circuit 240kV steel towers in Northern Alberta; 125km with 97 km completed in 84 days, January through March 2009
- 3) ATCO Electric Dover to Whitefish 340km of 240kV lattice steel double circuit and steel H-frame structures in Northern Alberta; constructed over a single winter.
- 4) All Fort McMurray projects
- 5) Victor Mine in Northern Ontario (James Bay Lowlands); 415km of 115kV line constructed largely over 3 winters
- 6) BP Noel Dawson Creek, BC; 70km 138kV line
- 7) Northwest Transmission Line BC Hydro
 This project is being constructed year-round; through the winter in Northern BC
 during cold and extreme snow conditions. Environmentally sensitive areas around
 the Skeena River are being constructed in the winter to eliminate environmental
 risks.
- 8) Suncor Firebag Transmission Line in Fort McMurray Alberta. Construction of 50km of 230kV lattice double circuit. This line was built cross-country with 4 access points constructed.
- 9) Manitoba Hydro Herblet to Ralls 165km 230kV constructed in the Canadian shield over two consecutive winters with only a single mid-point access.

Of the dozens of Major Projects completed by Valard in the past 10 years, the majority have been in extreme climates. While these project conditions have included dangerous forest fire conditions, the most frequent extreme conditions are those experienced from winter temperatures.

Valard's experience in these conditions, coupled with extraordinary personnel has allowed Valard to complete all projects we have participated in, on time and without incident, regardless of the conditions.

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2.3.3 Describe your expertise with building and using ice bridges in construction.

Valard has constructed in excess of 1,000 km of winter roads on various projects throughout Canada. We have extensive project experience where access for construction was based on the utilization of frozen muskeg, ice roads and ice crossings These include ice roads over lakes, muskegs and river crossings that have played a crucial role in enabling projects to move forward with equipment, material and supplies, as the sites were otherwise inaccessible. These roads have been constructed to allow transportation for anywhere from a few weeks to several months before they become unusable. With the use of Hydraulic Engineers, ice profiles and the results of deflection tests Valard's construction teams can build to, and perform activities, as per the requirements of the works with sound and safe access designs.

Winter Roads have been of particular importance on the following projects:

- ATCO Electric Wesley Creek to Meikle Line
 Construction of double circuit 240kV steel towers in Northern Alberta
- Manitoba Hydro Herblet Ralls 230 kV Transmission Line
 With substantial portions of the project inaccessible accept in frozen conditions, the construction necessitated the use of winter roads and accelerated construction in order to deal with the late starting and early ending construction season.
- Victor Transmission Line
 Much of the 415 km transmission line covered swampy areas that were only capable of supporting travel in frozen conditions. The Winter roads were essential for both supply and construction with organization of the project work revolving around the progression of thawing throughout the project area.
- BP Noel
 Sections of the 70 km line were only accessible in frozen conditions. Due to environmental restrictions, a push to complete sensitive areas with Winter Roads substantially reduced the cost of swamp matting.
- Yukon Energy Corporation Carmacks to Stewart Stage II
 One month to complete 30 km of transmission line work in various distributed permafrost areas prior to Spring Breakup.
- Suncor Firebag Transmission Line in Fort McMurray Alberta.
 Construction of 50km of 230kV lattice double circuit. This line was built cross-country with 4 access points constructed.

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2.3.4 Describe your company's experience with building transmission lines with very poor access.

Virtually the complete list of our project history is reflective of works performed with very little, if any, pre-existing access. The Use of ice/frost for access construction is commonplace, ice crossings and bridges are fairly standard, and Valard has constructed many "matted" access systems when the cold has not presented itself or in non winter conditions for swampy areas.

2.3.5 Describe your company's experience with using helicopters in the construction of transmission lines.

Valard has a significant amount of experience utilizing helicopters in our construction work. Our experience ranges from using helicopters to transport personnel and equipment into areas that are difficult to access by land, using helicopters to transport tower structures into inaccessible areas, and using helicopters to string/install conductor.

Please refer to Table 1 for the listing of projects that utilized helicopters in different aspects of the construction works.

2.3.6 Describe your company's expertise with managing, and in particular, training a large group of people from local communities.

Valard is a self-sustaining / self-performing construction company; with respect to resources however we employ a proactive approach in engaging a local workforce and local enterprises when completing projects that are adjacent to communities. Specifically, Valard's approach includes:

- a. Filling positions with qualified persons that are available;
- b. Hiring reliable and certified equipment from local owners and entrepreneurs;
- c. Subcontracting enterprises that have the demonstrated capacity and experience to provide services as required.

Because of the depth of Valard's workforce, we are able to provide a large number of skilled leaders to transmission projects, and these individuals are in turn well-equipped to provide the necessary mentoring and leadership to train inexperienced new hires in entry level jobs at the outset of the project. Valard has an excellent record of not only training new personnel, but also maintaining a good safety record while training is

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taking place. On a recent project in the Fort MacMurray region, Valard flew approximately 100 First Nation personnel from its previous joint ventures to complete the tower assembly activities. This project was completed with zero lost time and zero reportable incidents.

Valard has a long history of engaging local First Nations communities in major projects in a meaningful way, creating and sustaining employment, and providing contracting opportunities. In many instances, Valard will prepare large local and aboriginal population segments for future opportunities by hiring and assigning them to other projects that Valard has underway. We currently have groups of Cape Breton Mi'kmaq training in Alberta; Gaspe Mi'kmaq training on our Hanna (Alberta) Project; Manitoba Cree working and training in all regions of the country. Our programs are hands-on in all respects with trainees being mentored in all elements of transmission line construction. The end result of this activity has local residents prepared for employment when the project in their home region begins. Many of the training positions become full apprenticeships. Valard currently has two hundred apprentices under their employ; that program is managed by a professional Human Resource Management staff. This program is available for the Nalcor project and planning/discussions have already been underway for over a year.

Whenever Valard becomes involved in projects it enters into agreements with the impacted communities that specify the particulars of the pending relationship. Fundamental to these agreements are the commitments that each party makes to training and creating employment opportunities. Valard has several of these arrangements currently in place. In Northern British Columbia, we have a comprehensive agreement affecting eight First Nations and the independent Nisga'a Nation that specifies the number and term of the employee groups that we bring into the project. The training programs are sustained; they last throughout the life of the job and are portable beyond the end of the contract. Valard offers continuing employment to all employees that become proficient in their specialty.

In the Yukon, Valard constructed YEC's Carmacks-Stewart Landing Project in two separate phases under a 5-way joint venture with a local contractor and three First Nations. The project was executed on time and at its peak over half of the project complement of 60 personnel were local First Nation members. In addition to this, the project was able to place subcontracts in the small local communities (total population of approx. 600 people) in excess of \$2.5M, making a substantial contribution to the local economy.

In Manitoba, Valard in engaged in a Joint Venture with Fox Lake Cree Nation that is employment-based and co-managed. The long term nature of the projects in the region will result in local residents forming the bulk of the future employee base because of the training they will receive as a result of the Valard program.

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On a previous Manitoba project – the Herblet to Ralls Island Transmission Project – Valard was able to score a 96% local content score, owing to employing a large contingent of Manitoba linemen and combining that with labour for tower assembly that was exclusively local. The personnel trained on this project from the local Cree and Metis

communities have since been invited to travel to other projects in Alberta, BC and

Projects and potential projects in Ontario are covered by MOU's and Joint Ventures with eleven aboriginal communities (Lake Huron Anishinabek Transmission Corporation [LHATC] and Bamkushwada Corporation) and in each instance the core objective of the agreement is to create and sustain employment for major segments of the local population. Once underway, each agreement is managed with the employment and training milestones monitored and adjusted continually.

An MOU with the Eskasoni Band in Cape Breton is employment-based and highly successful. It is aimed at producing skilled linemen for potential employment in Cape Breton. That agreement has produced a group of nine new hires for Valard, all of whom are receiving their training in Alberta.

Valard has agreements with First Nations' communities that go beyond the technical elements of construction. With the LHATC we are preparing members of the community for the non-construction components of the regions' projects by offering scholarships in the engineering, environmental and business elements of the transmission business. Students are provided with scholarships to major Canadian universities.

Valard enters into extensive community consultation processes that are aimed at ascertaining the training and employment needs and then begins a negotiation process with local leadership intended to arrive at a partnership agreement that meets those needs. To the same extent, business opportunities are presented and those opportunities become a fundamental part of the agreement. The employment created by the business opportunities is significant and Valard works toward assuring the success of those ventures by providing management and mentoring support. The resulting indirect employment has a long term impact on the overall viability and economic health of the community.

Ontario.

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2.3.7 Describe your company's experience working on projects with extensive environmental and regulatory compliance requirements.

All of Valard's projects are subject to very stringent environmental and regulatory constraints. Whether on Crown or private lands, Valard has a dedicated team of Right-of-Way experts and Environmental Monitors to control and regulate construction activities. The NTL/BC Hydro project has been one of Valard's most comprehensive projects regarding Environmental sensitivities.

Valard has experience working on some of the most demanding environmentally sensitive projects in Canada. Northern British Columbia Projects demanded single drop reporting for spills; native areas in the Yukon required zero contamination commitments and organic farms saw extreme owner scrutiny to ensure continue Organic certification. These and all other challenges have been met by Valard in its commitment to the environment. Valard has a general policy to fully comply with environmental, health and safety regulations. The approach is to follow the most strict policies and procedures between client-specific, local, provincial or federal.

Valard has been in cooperative compliance with our clients and has been successful in the completion of our works under a wide variety of conditions. These are some examples:

- BC Hydro Northwest Transmission Line (currently underway). Valard is responsible for the Logging and Right of Way preparation as part of our full EPC contract. Valard is currently managing and mitigating environmental issues such as raptor nesting, grizzly bear hibernation/dens, salmon spawning streams, other fish bearing stream conditions, mountain goat ungulate areas, moose ungulate areas, caribou migration zones, rare amphibian areas, fisher nesting zones, hundreds of stream/river crossing conditions, working on islands on river crossings, protected volcanic/lava areas, sensitive archaeological sites, and many no-equipment zones to mitigate, to name a few.
- AltaLink/SNC Lavalin South West River Crossing Foundations. Involved in the mitigation and access through rattlesnake hibernation areas, rare grasses, noxious weed areas, migratory bird nesting zones, and highly sensitive archaeological sites. There was also a huge risk to manage regarding grass fires during spring time.
- ATCO Electric All projects in the regions of Northern Alberta are subject to moose and caribou ungulate zones requiring timing restrictions for the completion of work. Extreme environmental constraints such as "winter construction conditions" requiring significant coordination of manpower,

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equipment, camps and materials, as well as forest fire precautionary measures during summer work and the forest fire seasons.

- The BP Noel project had zero tolerance for even a drop of contaminants, stringent air quality requirements for the burning of woody debris during brushing, significant landowner issues regarding pastures/farmlands, immense access restrictions and siltation requirements regarding several rivers and stream crossings.
- 2.3.8 On each of the transmission lines listed on the Table in Section 1, were foundations, tower erection, stringing or OPGW installation subcontracted out? Please indicate which items for the transmission lines where subcontractors were used.

All tower erection, stringing and OPGW installation is and was performed by Valard Construction employees/personnel directly. These construction functions are part of our core competencies and are self performed.

Please refer to Table 1 for the detailed information requested specific to the foundation work self-performed and subcontracted out.

2.3.9 How many lattice tower transmission lines can you build concurrently? How many lattice tower transmission lines are you currently building?

Using only the resources currently at our disposal, Valard Construction can construct seven (7) major concurrent lattice steel transmission projects.

Making use of our client companies (other wholly-owned subsidiaries of the Valard Construction group of companies in Canada), we can construct ten (10) major concurrent lattice transmission projects.

Including the resources that we have access to through our sister-companies within Quanta Services, resources are in place to manage and construct in excess of one hundred (>100) concurrent major projects.

Valard Construction currently has three major projects in progress, with two additional projects to start over the winter months. Valard's controlled subsidiaries have an additional two transmission projects in progress. Of these projects, only 1 is anticipated to intersect the construction schedule of the Nalcor HVDC projects.

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Valard Construction represents Canada's largest transmission construction complement – we are actively seeking large projects to fill our backlog beyond 2013 in order to keep our local and national workforces busy.

2.3.10 What was the maximum number of lattice tower transmission lines your company built concurrently in the past?

As stated above: Valard Construction has independently constructed seven (7) concurrent major projects, with its client companies having previously supported three (3) concurrent projects for a total of ten (10). The total number of concurrent projects constructed by Quanta Services cannot be accurately estimated due to sheer volume. To put the company's capacity in perspective, on a recent project in Alberta, a single team constructed and strung 115km of double-circuit 230kV transmission line in three months, while the company was simultaneously engaged in six (6) other major projects including stringing of a 175km double-circuit, 4-bundle 500kV transmission line.

2.3.11 Describe your company's experience with building transmission lines in close proximately to existing energized facilities.

Valard Construction has extensive experience working with both crossings of energized lines and in parallel with energized lines. Many of the facilities that Valard has constructed and strung have been built in common corridors with existing energized facilities. The best recent example of this is the recent completion of the 180km Bruce x Milton project in the greater Toronto area. This project was constructed in a shared corridor that included 2 circuits of 500kV for its entire length and 2 circuits of 230 kV for over 100km. The calculated potential created by the 8km open-loop stringing segments on this project was in excess of 14kV, requiring that the entire project be treated as energized when it was being strung. This project, which required the placement of 4300 km of conductor, was completed with no lost time injuries. This is just a single example of dozens of projects that have required the construction of Faraday enclosures around the stringing operations and butt-downs. Further to this, Valard has completed crossings of literally thousands of energized facilities. To return to the Bruce x Milton project, this project included crossings of 340 municipal road corridors, almost all of which included an energized distribution line. At both ends and in several locations midway along the line, there were also energized crossings of 500kV and 230kV facilities. Valard Construction employs the largest contingent of journeymen linemen available for construction anywhere in Canada, and in any province can deliver capable tradesmen that are qualified to coordinate take work protection (clearances) or set holdoffs from the local utilities, and setup adequate protections (rider structures, rope bridges and enclosures)

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around energized facilities. In most cases, Valard is easily able to exceed locally required apprentice to journeyman ratios.

Valard also has a dedicated team of personnel that have been trained under Quanta Services' Energized Services program, and that are qualified to perform maintenance and construction activities directly on live facilities at transmission voltages as high as 345kV. These personnel are used both for dedicated live-maintenance programs underway by our clients, as well as being brought in occasionally by transmission construction crews to complete particularly technical crossings or modifications.

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3.0 ORGANIZATION AND RESOURCES

3.1 Proposed Project and Site Organization Chart

3.1.1 Please provide your preliminary Project and Site Organization that would execute the scope of work of the Package for Prequalification. As a minimum the chart should show the positions for Project Manager, Quality Assurance Manager, Chief Design Engineer, Planning and Scheduling Manager, Material Manager (Including procurement, inspection, expediting and logistics), Site Manager, and the key area superintendents. Include CVs for the key roles including the number of years of experience that the individual has in the position to be filled.

Please find attached the proposed project organization chart

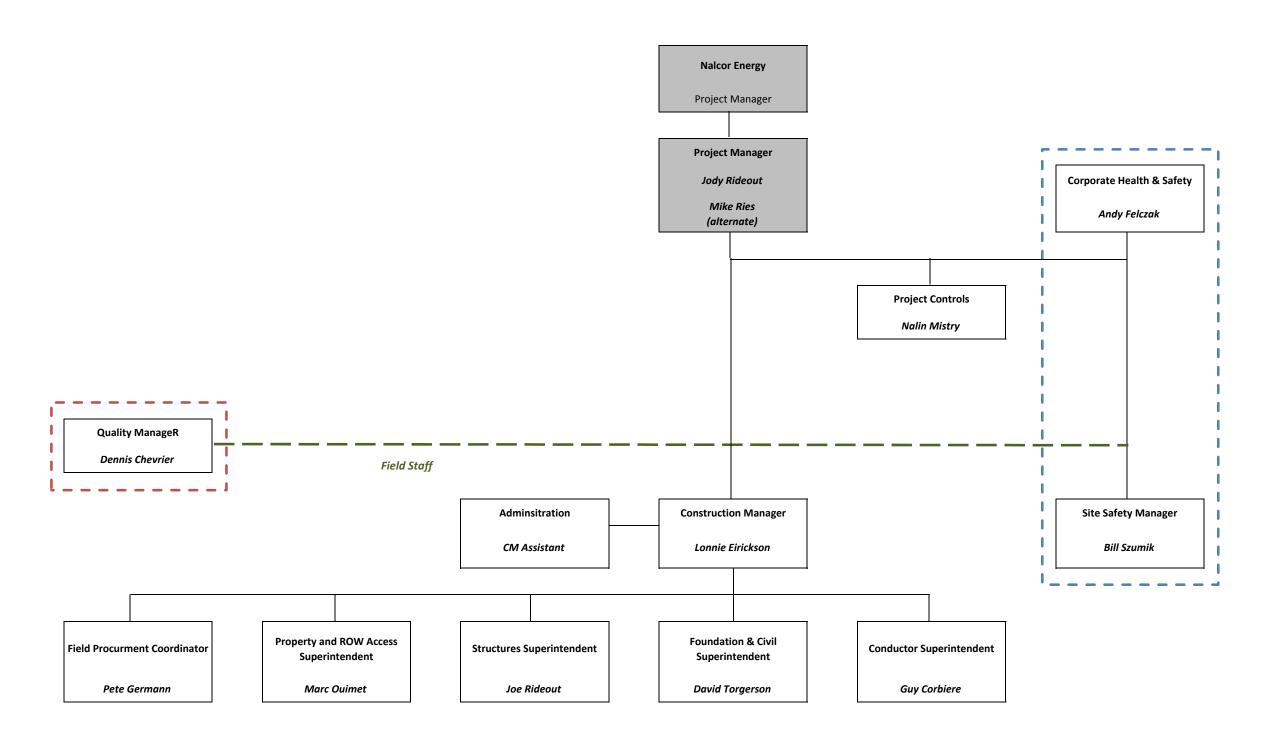
Please also see the CVs attached for each



Project Team Organizational Chart



Construction of 350kV HVdc Transmission Line



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3.2 **Subcontracting**

3.2.1 Does your company have formal written policies, processes and procedures to select and qualify its subcontractors, suppliers and sub-suppliers? Describe the process and procedure.

Yes we do have written policies, processes and procedures to select and manage our subcontractors and suppliers.

Please see the attached Section 4 of our HS&E Procedures which describes our selection and qualification process for subcontracted services.

Section 3.2 of the attached Quality Program describes our management of materials supplied by subcontractors/suppliers.

3.2.2 Does your company have formal written policies, processes and procedures to monitor its subcontractors, suppliers and sub-suppliers? Describe the process and procedures.

Yes we do have written policies, processes and procedures to monitor our subcontractors and suppliers.

Please see the attached Section 4 of our HS&E Procedures which describes our process ongoing construction and safety monitoring of our subcontracted services.

Section 3.2 of the attached Quality Program describes our management of materials supplied by subcontractors/suppliers.

3.2.3 Does your company have free access to its suppliers, sub-suppliers and subcontractors plants, productions, manufacturing, service or other facilities for quality auditing, monitoring, inspecting or surveillance?

Yes, generally we have access to all supplier and subcontractor facilities when requested.

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3.3 Off-Site Resources and Organization

3.3.2 Please describe your proposed site facilities that would be used for the work, including the square measure of fabrication facilities, offices, repair facilities, lay-down area, camp, warehouse space, wharfage or other facilities relevant to the Scope of Work of the Package for Pregualification.

The requirement for facilities will depend on the actual volume of work assigned to Valard through the contract (i.e. # of kms of line).

For similar projects, our project facilities have been set up as follows:

Repair facilities for Equipment/Tools:

We will set up a site/project specific maintenance facility that is easily accessible from various locations along the line route. In the case of longer/larger projects, we have and will set up additional facilities. These facilities are staffed with licensed mechanics to ensure timely and quality repairs.

Material Laydown Areas are set up per section or segment of work. A project of this magnitude may be segmented in as many as 8-10 segments. Laydown areas range in size depending on the location and what other uses the area may serve. For example, a 10 acre yard functions as a material laydown area but it also houses the camp, mechanical repair shop, fuel storage and access, and the office trailers. Most materials may be received here initially and then redeployed to the other laydown areas along the route. Smaller laydown areas that serve only limited functions are closer to 3 acres in size.

Project Offices are also set up along the line route. There will typically be one main office with smaller segment-specific offices located elsewhere.

3.3.3 Does your company currently own stringing equipment capable of tension string two pole, single modified Falcon 3640 kcmil ACSR conductors.. If not, how would your company obtain the required stringing equipment?

Valard Construction currently owns pulling equipment that would be suitable for pulling this conductor. At this time, we do not own the requisite tensioning equipment.

In the event of award, we have access to the stringing equipment manufacturing facility of its sister-company – PAR Electrical Contractors of Kansas City, MO. PAR has assembled and made use of comparable exotic tensioning equipment for specific client

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needs. Recognizing that Valard Construction is a major and substantial sister-company of PAR, the requirements of this contract/project would be treated as a priority within the manufacturing facility and the equipment will be made available to suit the construction/stringing schedule of this project.

3.3.4 Please describe your work loading, for the facilities and equipment covered in this Section 3.3, during the timeframe in which the work described for the Package for Prequalification is to be performed. In addition please comment on your capacity to perform in the time frame indicated.

As stated in Section 2.3.9, we represent Canada's largest transmission construction workforce and we are actively seeking large projects to fill our backlog beyond 2013. Although we do have a few projects confirmed for 2014, the majority of our larger projects are scheduled for completion in late 2013 and early 2014 ensuring that we have ample experienced resources and equipment available for this project.

Valard Construction is confident that using only its own resources it would be capable of completing the work described in this package for prequalification in the period specified.

Please refer to the information provided in Section 2.3.9.

Including the resources that we have access to through our sister-companies within Quanta Services, resources are in place to manage and construct in excess of one hundred (>100) concurrent major projects therefore being able to deliver the Nalcor HVdc project in the timeline specified is well within our capacity.

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3.4 Site Resources and Organization

3.4.1 Please identify the major or special items of work that you expect to subcontract.

Type of Work or Service	Potential Sub-Contractor and Location
Camp	TBD
Construction	Local to Newfoundland and Labrador
OPGW	VistaCare – Halifax, NS
Fibre Splicing	
Right of Way	Utilize local resources and partnerships
clearing	We do have a relationship with Nukem Forestry

3.4.3 Please submit a list of the software (or company internal systems) that you will use in the execution of the work. This should cover design, planning and scheduling, materials management (procurement, inspection, expediting and logistics), quality assurance and contract administration.

Planning & Scheduling – we will use Primavera

Material Management – we utilize a system called Traker. We receive and send out materials to the field using this system. Purchase Orders (as required) are also generated using this system.

Contract Documents - We make use of a system called MFiles for all our documentation, drawings, contract documents, etc. This system is also used for Quality Documents.

Contract Administration: Valard manages its major projects in a proprietary database realized in FileMaker.

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APPENDIX 4

ENVIRONMENTAL QUESTIONNAIRE

Package Number:	CT0327
Package Name:	Construction of 350kV HVdc Transmission Line Section 1
Applicant:	
Applicant Name:	
Contact Phone:	Email:

CIMFP Exhibit P-01886 Application For Bildage of 101 Appendix 4 – Environmental Questionnaire Package Number: CT0327

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1.0 INTRODUCTION

Nalcor's environmental focus is on preventing pollution, complying with legislation, and continual improvement to ensure an environmentally responsible development. Nalcor's commitment is to be an industry leader in setting environmental standards in all areas of its work, and meeting these standards during Project execution.

To accomplish this, only Contractors / Suppliers who meet or exceed Nalcor's Environmental Standards shall be used. Accordingly, the Applicant is requested to provide information specified in this Attachment. This will help to evaluate the Applicant's Environment Management System for comparison against that of the Lower Churchill Project.

2.0 QUESTIONNAIRE INSTRUCTIONS

Please provide responses in the spaces provided. The completed Pre-Qualification Questionnaire and supporting documentation must be included in the Expression of Interest (EOI).

2.1 EMPLOYEE/PERSON HOURS

Please provide the average number of employees and estimated person hours for the last three years (including subcontractors)

Year	2012	2011	2010
Number of Employees	995	709	520
Number of Person hours	2,227,757	1,576,305	1,376,312

2.2 ENVIRONMENTAL (REGULATORY) COMPLIANCE

2.2.1 Please provide information on any violations, citations, orders, or incidents of non-compliance experienced by the Applicant and its subcontractors during the past three years.

<u>Ye</u> :	ar:	<u>2012</u>	<u>2011</u>	<u>2010</u>
Number of Violations, Citations, Orders, or Incidents		0	0	0
Number of Agency Inspections conducted		0	0	0
Amount of fines incurred if any		0	0	0

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2.2.2 List of Agencies performing inspections:

Please note: The Regulatory Compliance information is to include violations, citations, orders, and/or incidents of environmental non-compliance all contractors and subcontractors while working directly for You, not just those directly attributed to you.

3.0 ENVIRONMENTAL RECORD

Please provide your Environmental record for past three years (Double-click on table below to activate):

Year:	2012	2011	2010	Total
Category				
Person hours / year	2,227,757	1,576,305	1,376,312	5E+06
Environmental Incidents / Non Compliance	0	0	0	0

	e indicate the answer in the 'response' column. If 'yes' then provide a ence and attach appropriate documentation <u>or</u> attach explanatory notes	Yes	No	N/A			
4.0	LEADERSHIP AND ADMINISTRATION						
4.1	Does your company have an environmental policy statement that clearly outlines its commitment to environmental stewardship? See attached Policy Statement from our HS&E Manual	Υ					
4.2							
4.3	Does your company have in place a Chemical Management Procedure? See attached Hazardous Materials section of our HS&E Manual	Υ					
5.0	LEADERSHIP TRAINING						
5.1	Does your company provide formal environmental management training to management personnel? Project specific Environmental Orientation is a mandatory pre-job requirement for all levels of personnel associated with the project. Daily monitoring and reporting instills awareness progressively throughout the works, and reviews of any incidents are done at the weekly meetings	Υ					
5.2	Provide an overview of training program for management and employees.	Y					

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	e indicate the answer in the 'response' column. If 'yes' then provide a ence and attach appropriate documentation or attach explanatory notes	Yes	No	N/A			
	See attached document on Training & Orientation						
6.0	INCIDENT INVESTIGATIONS						
6.1	Does your company have a written procedure for environmental	Υ					
	incident reporting and investigation?						
	See attached Section 7 – Environmental for details on incident						
	reporting						
	Also provided and attached is a sample of our Incident Report form						
	for Environmental Incidents						
6.2	Does your company incident investigation follow a process such as	Υ					
	the "TapRoot" process?						

7.0	EMERGENCY PREPAREDNESS					
7.1	Does your company have an emergency response plan related to its activities and specific locations? See attached Emergency Preparedness document that is part of our HS&E Manual	Y				
7.2	Yes – general training is provided as well as site and project specific training					
7.2	Does your company have a spill response plan for hazardous materials, including fuels and other petroleum products, that it transports, handles, uses, and/or stores? See attached Section 7 – Hazardous Materials for an outline of our Spill Response policy and procedures	Y				
0.0	ODCANIZATIONAL BUILES DOLICIES AND DROSEDURES					
8.1	ORGANIZATIONAL RULES, POLICIES AND PROCEDURES Does your company follow all applicable legislative requirements in the jurisdiction where work is being performed?	Υ				
8.2	Does your company have formal environmental policies and procedures as part of its Environmental Management System? See attached documents provided with this submission which have been extracted from our HS&E Manual	Y				
9.0	EMPLOYEE KNOWLEDGE AND SKILLS TRAINING					
9.1	Does your company provide training for Management and Supervisors in environmental management? See response provided under 5.1	Y				

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Appendix 4 – Environmental Questionnaire

Package Number: CT0327

	e indicate the answer in the 'response' column. If 'yes' then provide a ence and attach appropriate documentation or attach explanatory notes	Yes	No	N/A		
9.2	competent workers, including supervision, are used during the operation?					
	See attached document on Training and Orientation					
9.3	Does your company offer WHMIS training to its staff?	Υ				
10.0	JOB MEETINGS					
10.1	Does your company discuss environmental issues at regular job meetings?	Υ				
11.0	PLANNED ENVIRONMENTAL AUDITS AND INSPECTIONS					
11.1	Does your company's environmental program outline the requirements for Supervisors and Employees to conduct regular environmental inspections of work conditions at the worksite? See attached document on Audits & Inspections extracted from our HS&E Manual	Y				
11.2	Does your company's environmental program require the prompt reporting of hazardous conditions and spill incidents at the worksite/s? See attached Incident Reporting & Investigation	Y				



Docum	ent D	Description			Health, S	afety &Env	rironm	ental Policy
Created By: A. Felczak		Doc. Numb	er	Health, Sa	afety & Enviro	nmenta	al Policy 1.00	
Date: Sept. 23, 2003		Revision:	7	Revised by:	A. Felczak	Date:	Jan. 7, 2013	

1.1 INTRODUCTION

Valard considers the safety of its employees, contractors and other related individuals to be of prime importance.

We are committed to providing a work place free of accidents, injuries or fatalities.

To this end, every reasonable effort shall be made in the interest of accident prevention to provide for safe and healthy working conditions and to eliminate hazards that can cause injury to workers or damage to environment, property and equipment.

The purpose of this program is to emphasise Health, Safety & Environmental practices for the benefit of all employees and to serve as a reference guide.

New technology, changing social values and legislative requirements demand that this manual remains dynamic through on-going reviews and input from experienced personnel. This activity is encouraged and appreciated.



Document Description			Description			Health, S	afety &Env	ironm	ental Policy
Created By: A. F		A. Felczak	Doc. Numb	er	Health, Sa	afety & Enviro	nmenta	al Policy 1.00	
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1.2 Corporate Health, Safety and Environmental Policy Statement

It is Valard's policy to ensure that safe working systems are in place to enable the company to perform its operations in such a manner as to avoid as far as reasonably practicable, harm to its employees, sub-contractors and all others who may be affected by its activities.

Further to this, the company will strive for the highest practically achievable standards of safety, occupational health and environmental protection.

To assist in achieving these goals the company invites and welcomes all active support of its employees and in turn will ensure they have the required skills and support to meet this commitment.

Employees and sub-contractors on there part have clear responsibility to cooperate and continuously strive to achieve these high standards.

The company will review all applicable legislation annually to insure that this policy is in compliance to all legislation, based on the geographical area of work.

The following broad principles are to be used to achieve the company's policy:

- ◆To prevent all injures at the workplace.
- •To structure and maintain high standards of safety and provide for a healthy working environment.
- •To ensure the company's employees are informed, trained, and supervised to meet these standards and that their cooperation and responsibilities to achieve these standards are clearly understood.
- ◆To establish safe and environmentally sound working practices throughout its operations to ensure a safe and healthy workplace for all employees.
- •To be aware of statutory requirements and other published guidelines including the safe working systems of the company's clients, and ensure that all personnel comply with these requirements.
- •To revise the company's safety policy, safe work practices, procedures as often as is necessary.

Adam Budzinski

Signed

President



Document Description					Health, S	afety &Env	ironm	ental Policy
Created By: A. Felczak		A. Felczak	Doc. Numb	er	Health, Sa	afety & Enviro	nmenta	al Policy 1.00
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1.3 ENVIRONMENTAL POLICY

Valard is committed to acting in an environmentally responsible manner. We affirm our commitment to our stockholders, our employees, our clients, and our neighbours through the following policy:

Valard is committed to protecting human health and the environment through compliance with applicable Federal, provincial and local environmental laws and regulations and by continually striving to reduce the environmental impact associated with our operations.

We will achieve this commitment through the application of the following principals:

- 1. Valard will comply with all applicable environmental laws and regulations.
- 2. Valard will not create unacceptable new risks to the environment and will strive to minimize risks from existing environmental conditions.
- 3. Valard will strive to minimize the quantity and degree of hazardous waste resulting from its operation.
- 4. Valard will strive to become a leader in respect to environmental protection and enhancement.

Valard's Environmental Policy was adopted in 2002 and is applicable to all operations.

Adam Budzinski

President

Signed



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24.0	Working Alone Policy
25.0	Vehicle Policy
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27.0	Safe Operating Procedures (stand alone Manual)
28.0	Management of Change Policy
29.0	Violence Policy
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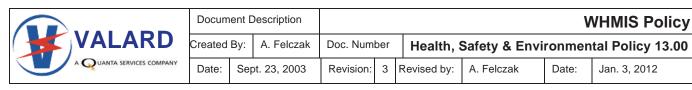
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13.1 HAZARDOUS MATERIALS POLICY

Material Safety Data Sheets for all materials on site are to be maintained and shall be made available to workers. MSDS's must be dated within three years.

All materials shall be stored and used in accordance with information provided in Material Safety Data Sheets.

All Valard employees shall receive WHMIS training. Proof of this training shall be kept in the employee's file in the Office. Workers will be scheduled to receive refreshers if there are changes to the Program. This training shall include:

- Labelling of containers, and how to work with the controlled product safely, including required PPE that is required to handle the product.
- All controlled products that are placed in new containers must have a work site label attached as soon as the container has controlled product placed in it.
- All Controlled products must have a supplier's MSDS attached to it when the product arrives directly from the supplier.
- All labels must be legible, if they are damaged a new label must be attached
 with all of the original information on it. This must be done as soon as the
 damaged label is identified. This information must contain the following info:
 Procedures for safe storing, First Aid and emergency procedures required in
 case of a emergency of the controlled product.
- · Location of the MSDS binder.

WHMIS should be periodically discussed on site at the Health, Safety & Environmental Meetings to ensure all workers are reminded of labelling, storing and disposal procedures of materials presently on site.

The Area Supervisor is responsible to ensure that the First Aid Attendant (if applicable) has an above average WHMIS knowledge and has copies of all pertinent MSDS available, or they must be available to the workers who must be informed of the location of the documents. These can be made available to the workers in the following formats: Hard copies in the site lunchroom, site office, or on the Web www.valard.msdsbinders.com.

13.2 MONITORING WORKPLACE EXPOSURES

Agents potentially harmful to a worker's heath fall into one of three categories:

- 1. Chemical asbestos fibres, concrete dust, etc.
- 2. Physical noise, etc.
- 3. Biological urine and blood samples, etc.



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In construction, chemical and physical agents are far more likely to be encountered.

Ambient dust and sound levels shall be measured as required by provincial Health, Safety & Environmental regulations. Refer to the provincial/federal safety regulations for further information pertaining to permissible levels and concentrations.

Before demolition work is started, a survey of building materials must be conducted to confirm that no toxic materials are present (i.e.: asbestos, PCB, lead etc.). This survey must be in writing and available on site for review by provincial safety inspectors or workers.

Any jobsite where workers may be exposed to any lead must be evaluated as to the work activity and a atmospheric test must be performed prior to any work activity commencing. No worker shall be exposed to concentrations higher than the Occupational Exposure limit as stated in the Provincial regulations. Where there is a concentration higher than 0.05 mg/cu. meter over an 8 hour exposure shall be trained in the work procedures and hazards of working with lead. These workers must wear the appropriate clothing and personal protective equipment to prevent any inhalation of any lead fumes.

Any jobsite containing asbestos materials must have an asbestos related Job Procedure in written form and all work must be in conformance with the provincial safety regulations.



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Regulatory Reference:

Alberta

Part 29 Alberta's OH&S Code (WHMIS)

Ontario

1990, Regulation 860 WHMIS

• Sections 1-18 inclusive

Saskatchewan

Part XXII Workplace Hazardous Material Information System

Sections 315 to 327 Inclusive

British Columbia

Regulation & Guidelines for WHMIS

- Part 5 Chemical Agents and Biological Agents
- Sections 5.3 5.9 Workplace Hazardous Material Systems

Yukon

WHMIS Regs. O.I.C. 1988/107

Occupational Health & Safety Acct O.I.C.

Section 1 to 14

NWT/ Nunavut

Part I to Part V inclusive All sections

Manitoba

Manitoba workplace Safety & Health Regulation M.R. 217/2006

Part 35 Section 35.1 to 35.25 inclusive



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13.3 WHMIS CLASSIFICATION

HAZARD SYMBOLS

There are eight symbols, which are designed to tell you at a glance the kinds of hazards that exist with a particular chemical. They are the following:



CLASS A - COMPRESSED GAS

Any gas or any liquid that boils at or below ordinary temperatures, in a pressurised container (regardless of whether it remains as a gas, turns to liquid, or is dissolved in another liquid).



CLASS B - FLAMMABLE or COMBUSTIBLE

There are six subdivisions of substances in this category, all capable of self-sustaining combustion in air with various degrees of intensity.



CLASS C - OXIDIZING MATERIALS

Substances (such as pure oxygen, chlorine, organic peroxides) that support the burning of fuels or of other materials capable of oxidation.



CLASS D1 - ACUTE POISONS

Substances capable of causing rapid death of a person exposed to very small amounts.



CLASS D2 - OTHER POISONS

Substances eventually causing serious illness of a person repeatedly exposed to small amounts, or substances able to cause sensitization of a person to further exposure.



CLASS D3 - INFECTIOUS MATERIALS

Organisms believed to cause disease, or the toxins of such an organism.



CLASS E - CORROSIVE MATERIALS

Any solid, liquid, or gas that can destroy the skin or eat through metals.



CLASS F - DANGEROUSLY REACTIVEA

A substance that may undergo an unexpected change (for example, producing heat, pressure, explosion, or toxic fumes) if simply subjected to heat, pressure, or shock or allowed to contact water.



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8.1 HEALTH, SAFETY & ENVIRONMENTAL MEETINGS

Health, Safety & Environmental Meetings are to be held as a minimum on a monthly basis. At some worksites the client may require these meetings to be held weekly. Every employee is required to attend.

Safety meeting topics can be drawn from pertinent Tailboards, Safe Work Practices and Procedures and Safety Topics as scheduled by the HS&E Department.

Items discussed at the meetings are to be recorded and submitted to the Corporate HS&E Manager for review. Issues raised during the meeting are to be resolved and the results reported to the workforce at the following meeting.

Valard and its subcontractors will hold joint meetings whenever practicable.

8.2 WORKER ORIENTATION:

8.2.1 NEW HIRE VALARD WORKERS:

All newly hired workers must receive a "New Worker Orientation" (Section 8.2.4) prior to commencing work on a project. All associated paperwork is to be forwarded to the Office, this includes all certificates to prove competency in the trade for which they are hired for. This includes any related training records. Workers will provide this information in order that it may be entered in the training database. A hardhat sticker will be issued to identify oriented workers.

8.2.2 VALARD WORKERS NEW TO JOBSITE:

If an existing employee is transferred to a new job site and has received Valard's "New Hire Orientation", a complete orientation will not be required. Instead the worker will be advised of site-specific hazards, requirements and emergency procedures before commencing work. A commencement form must be filled out so that the site has appropriate emergency contact information.

8.2.3 SUBCONTRACTOR WORKERS:

All new subcontractor employees must receive a "Contractor Worker Orientation" (Form # 8.6.1) prior to commencing work on a project. All associated paperwork is to be forwarded to Valard's Office. Subcontractor employees with proof of Valard's "Contractor Orientation" less than 1 year old will not require complete orientation. They will instead be advised of site-specific hazards, requirements and emergency procedures before commencing work.



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8.2.4 NEW WORKER ORIENTATION OUTLINE:

The purpose of this outline is to ensure that all new employees receive a consistent Orientation to Valard.

All employees orientated must sign Form Orientation Control Sheet.

ORIENTATION PREPARATION:

The following forms and booklets are required as a minimum:

- 1. Valard Employee Orientation (Commencement) Package containing the following:
- a. Employee Commencement Form
- b. Personal Tax Credits Return
- c. New Employee Orientation Form
- d. Medical Questionnaire
- e. Training information Form
- f. Vehicle Use Form
- g. Health Sign on Form (Short/Long term Disability etc.)
- h. HS&E Handbook

Employees are to view the following:

- o Valard's PowerPoint voice over Orientation Program
- Seven Steps to Safety program.
- o CSTS (If required by Client)
- o Any additional client required orientation
- Site Specific Orientation if on a large project
- 2. Sub Contractor Orientation (Commencement) Package containing the following:
- a. Subcontractor's PowerPoint Orientation
- b. New Employee Orientation Form.

Valard Employee's ORIENTATION:

Topics to be addressed and discussed

Trained supervisor's or site Safety advisers who have received training may conduct orientations.

- 1. Introduction: Introduce yourself and welcome employee to the company or project.
- 2. Explain how to fill out paperwork.
- 3. Open the Valard Orientation Power Point Presentation
- 4. Review the New Employee Orientation Form with workers and have them check off the subject boxes as each section is discussed and completed. Answer any questions the employee may have. The following outline is to be followed:



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Company History

Valard was founded in the Northwest Territories and since grown into one of Canada's largest General Power line contractor.

Company Health, Safety & Environmental Policy

Review the policy with the workers.

Responsibility for Safety

Safety is not only the responsibility of Management or Safety personnel. All workers are responsible for their own safety and the safety of others as per the Occupational Health and Safety Act.

Right to Refuse

No worker is to carry out any work that will cause imminent danger to himself or another worker as per the Occupational Health and Safety Act.

Imminent Danger is defined as:

- A danger which is not normal for that occupation, or
- b). A danger under which a person engaged in that occupation would not normally carry out his work.

All employees will receive training stating the process required to address unsafe work. **Process:**

- Worker perceives the work requested is unsafe.
- Worker is to report this to his immediate Supervisor.
- Work that is deemed unsafe will not be performed (MUST STOP) until an investigation is completed and work process has addressed the unsafe issues.

Worker who identified the unsafe work request shall not be reprimanded. Work refusal shall be documented and maintained by the safety department and entered in the Entropy database.

Right to Refuse Unsafe work process document shall be posted at each worksite including Shops and offices. (See page 20)

Supervisor

A supervisor is anyone who gives instruction or direction to workers.

The Supervisor is responsible to ensure that the entire Health, Safety & Environmental program is carried out.

Management

The President will provide the necessary resources to accomplish the objectives of the Health, Safety & Environmental Program.

Vice President of Health and Safety

Vice President of Health and Safety oversees the Health, Safety & Environmental Program and its effectiveness and compliance to the applicable Provincial and Territorial Legislation of the worksite location.



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POLICIES/PROGRAMS

Modified Work:

Valard will make every reasonable effort to provide suitable temporary duties to assist in the rehabilitation and early return to work of employees who suffer a work related injury or illness. All work will be meaningful and will be approved by a physician. All workers are required to participate in Valard's Modified Work Program as a condition of employment.

Substance Abuse:

Valard's Substance Abuse Program is a term and condition of your employment. Read 16.3.1 Work Standards, 16.4.1 Alcohol and Drug Work rule, 16.4.4 Implementation of the program

Drug Work Rule:

Inform workers the complete Substance Abuse Program can be found in the Health, Safety & Environmental Manual and will be made available to them if they wish to review it.

Harassment/ Violence Policy:

Valard has a Harassment policy and a Violence Policy. If you are either harassed or subjected to violence then you must report it to you immediate supervisor, if he is not available then you are to call the VP of Health, Safety & environment at the Edmonton office

Environmental:

Valard will endeavour to prevent environmental damage on its work sites.

All spills or releases must be reported to your supervisor immediately so that a clean up can take place. Provincial and Federal environmental emergency reporting numbers are listed in Section 7

Observation / Near-miss Program:

Briefly explain the Observation program and show the workers the Observation card. Explain both the BBS side of the card and the Near Miss Reporting form on the reverse.

Emergency Problems:

Review the site emergency response plan with the employees. Ensure that they are informed of the location of first aid facilities, evacuation points and emergency communication devices (i.e. phone, radio, horns). Inform them of how to call for fire, ambulance and police/security response.

Incident Reporting:

It is of utmost importance that all incidents, injuries and near misses must be reported to your supervisor immediately so that they can be properly reviewed and preventative measures put in place to prevent recurrence. Failure to report incidents is considered cause for disciplinary action. If you injure yourself and have to go to a medical clinic/Hospital or any other medical facility such as a physiotherapist/ Chiropractor's office etc. you must inform the Edmonton office and complete a Worker's WCB injury report.



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GENERAL RULES

Horseplay, Fighting:

Horseplay and fighting are responsible for a large number of injuries and fatalities. Neither will be tolerated on any Valard Project.

Vehicle Operation:

No worker shall operate a vehicle in which he/she is not licensed or trained to operate.

Logbooks must be completed daily when operating any equipment over 4500 kg.

All rules and regulations of the road will be followed at all times.

Worker is to sign the Vehicle use policy form

(Inform employees of client's rules and regulations if applicable)

Theft:

Theft will not be tolerated and will result in immediate dismissal. Local law enforcement will be contacted.

MEETINGS

Tailboards:

A Tailboard will be performed at the beginning of each new task. Foremen will assist workers as necessary.

Safety Meetings:

All employees on site will attend a Monthly Safety Meeting, either Valard's, or in the case of subcontractors, their own. Subcontractors must forward a copy of their Safety Meeting minutes to Valard's Site Foreman.

(Inform the employees of the time and day that meetings are held)

SAFE WORK PRACTICES/PROCEDURES

General Housekeeping:

You are responsible for maintaining all work and storage areas so that they are neat, clean, organized and safe at all times. All equipment must be stored in designated area.

No garbage is to be left in any piece of Equipment.

You are responsible for the removal of your own waste materials, and must remember the following when dealing with wood scraps and waste:

- 1. Recycle rags, bottles, empty cans, cartons, wrappings and crates or properly dispose of them in approved waste containers. There must be no illegal or inappropriate dumping of debris, refuse, food scraps or any other wastes. All wastes must be transported and disposed of according to approved procedures.
- 2. Keep doorways, walkways, stairways and exits from buildings clear at all times.
- 3. Store all flammable substances to be used for the work (e.g., paints, solvents and fuels) on our property only in a location and manner approved by the company.



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4. Debris should be cleaned as it is created whenever possible; it is not to be stockpiled.

Scaffolds:

- All scaffolds must be erected by a competent worker or by a worker under direct supervision of a competent worker.
- All scaffolds are to be tagged as follows:

Please refer to Valard's Safe Work Practices and Procedures for more information.

Floor Openings:

- All Floor openings over 4" X 4" must be guarded as follows:
 - Guard-rails as per Part 22 of the Alberta OH&S Code Covered Openings 315(1) and/or
 - Covers installed. Covers are to be designed to carry two times (2x) its known load, marked "DANGER OPEN HOLE DO NOT REMOVE" and mechanically fastened so it requires a tool to remove.
 - o Part 22 of the Alberta OH&S Code Covered Openings 314(1)

Ladders:

- All ladders are to be used only as designed.
- Step ladders are to be used only in the fully open position and arms locked into place.
- The top two rungs of any ladder are not to be used.
- All ladders must extend 31/1 meter above all landing points.
- All ladders must be placed 1/4 ratio.
- All ladders must be tied off on top and if possible on the bottom.
- When not in use, ladder shall be secured or placed on the edge on ground.
- Please refer to Safe Work Practice 26.012.

Excavations/Trenches:

- No person is allowed to work in any excavation over 1.2 meters (4') unless the following:
- a. Temporally supported or,
- b. Cut back the side of the excavation to below 1.5 meter (4') height requirement.
- c. A safe means of egress/assess must be placed every 16 meters/52'5".
- d. All spoil piles be a minimum 1 meter/3'3" away from the edge.
- e. Refer to Valard's Safe Work Practice 26.037 on Excavation

Cutting/Welding:

- The appropriate number lens must be used.
- All oxygen and acetylene bottles to be stored in an upright position with caps on.
- All oxygen/acetylene cutting units to have flashback protectors.
- All welding that takes place at eye level shall have welding blinds installed to protect workers
- All oxygen/acetylene units are to broken down at end of every shift and caps replaced.



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- A 20 pound ABC fire extinguisher to be placed within 30' of work area for all welding and cutting.

Refer to Valard's I Safe Work Practice 26.009 on Cutting and Welding

Manual lifting:

Poorly planned lifts often result in strains, sprains, falls and hernia type injuries. For safer lifting:

- 1. Prior to any manual lifting, moving, pushing handling, loading or hauling a hazard assessment is to be performed to determine the approximate weight of the object, to verify if mechanical lifting equipment may be required, As a minimum any material weighing greater than 75 lbs, it is recommended that more than one person or equipment be utilized to do the lifting. This equipment will be provided to the worker where the hazard assessment identifies the need for it. All heavy or awkward loads require a hazard assessment to identify the means used to lift and move the load, or the equipment required to lift it safely.
- 2. Plan your direction of travel; ensure that there are no obstacles and trip or slip hazards.
- 3. Use proper lifting technique, use your legs rather than your back muscles, and avoid twisting motions.
- 4. Regular stretching is recommended to prevent injuries
- 5. All work procedures will be reviewed in all cases where there was an injury whether soft tissue or musculoskeletal. All procedures will be reviewed whenever there are any injuries while performing a specific task.

Rigging:

- All rigging shall be done by a competent worker.
- All rigging shall be inspected daily.
- All rigging for critical lifts must be approved by an engineer.
- Refer to Valard's Safe Work Practice 26.006 on Cranes and Rigging

Hoisting:

- All loads must have a tag line unless it creates a greater hazard than not providing one.
- Signalmen must wear a high visibility vest or arm gauntlet for easy identification of the operator.
- Only C.S.A. approved slings to be used.
- Refer to Valard's Safe Work Practice # 26.006 on Cranes and Rigging.

Powder Actuated Tools:

- Only formally trained workers can use powder actuated tools. Courses are available through Trade Certificate or Manufacture Training.
- Any worker using the equipment is responsible to clean and maintain as per manufacturer's specs.

Refer to Valard's Health, Safety & Environmental Manual Safe Work Practice on Powder Actuated Tools.

Electrical Equipment:

- A competent worker must connect all electrical equipment.
- All workers to follow Safe Work Practice for Electrical Extension Cords.



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Grounding:

- All tools and equipment to be double insulated or electrical grounded.

CSTS:

-CSTS is mandatory to work for Valard in Alberta/ British Columbia/Saskatchewan/Manitoba. Insert proof of training.

WHMIS:

- The site MSDS book is normally located in the jobsite office.
- All Controlled products to have proper WHMIS labeling.

Personal Protective Equipment

We understand that not all jobs are efficiently accomplished while wearing standard Personal Protective Equipment. If you feel that a task you need to perform cannot be reasonably accomplished while wearing all of the required PPE, it is your responsibility to arrange for a deviation BEFORE you begin working.

Contact your foreman, Area Supervisor or the Safety Advisor.

Head Protection:

- All site employees must wear a CSA approved Hard Hat (welders to wear hard hat combo).
- All Hard Hats are to be worn as per manufactures design.
- Certain Clients require CSA approved Side Impact Hard Hats.

Eye Protection:

- All site employees to wear CSA/ANSI safety glasses.
- All employees that wear prescription glasses must meet CSA- Z87 or over safety glasses are to be worn.
- All side shields must meet CSA standards. Hard side shields only.

Respiratory Protection:

- -Employees to wear respirators for controlled products as required on MSDS sheets.
- -All employees that require a half or full face mask must be fit tested prior to receiving mask.
- -Dust masks to be worn in all dusty areas.

Hearing Protection:

- Hearing protection to be worn in all areas that sound exceeds 85dba.
- A good rule of thumb is if you cannot hear a person talking in normal tone 3 feet away from you, you require hearing protection.
- Only use CSA approved hearing protection.

Foot Protection:

- Only CSA approved footwear (c/w green triangle and the Omega Symbol) with above ankle support is permitted on site.
- -All footwear that is badly worn must be replaced as soon as possible. i.e. Steel toes exposed, cuts.
- Boots designed for Ironworkers are not permitted on site.



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Hand/Body Protection:

- Glove use is mandatory at all times on Valard's Projects

Fall Protection:

- All employees to ensure full fall protection in place when their feet exceed 3.0 metres (10 ft.).
- Safety belts are not permitted, Full Body Harness with maximum 5' lanyard only. Except when climbing wooden poles where a Lineman's climbing belt complete with a choking pole strap and a Miller retractable lanyard.
- Refer to Valard's Safe Work Practice 26.028 on Fall Protection

As Valard's workers receive new tasks on an on-going basis any unfamiliar tasks will be fully explained by the Foreman. Supervision of Workers outlines in more detail training required for workers as well as provides reference materials for instruction in Safe Work Practices. All workers will receive training when required such as Respiratory, Forklift, and Fall Protection etc. This will be identified during a job specific Pre-Job Hazard Analysis prior to the start of each work site.

8.3 MANAGEMENT ORIENTATION:

In this section "Manager" refers to all Managers, QA/QC Personnel, Safety Advisors, Area Supervisors, and Foremen.

In order to ensure that Valard's Managers understand their Health, Safety and Environmental responsibilities, any new manager will receive an overview of the Health, Safety and Environmental Manual in a timely manner. This review will be conducted by the VP of Health, Safety & Environment or an experienced Safety Advisor and documented.

New Area Supervisors, Foremen and Safety Advisors hired by the company will be issued a copy of the Valard's Health, Safety & Environmental Manual and a copy of the Applicable Provincial/Territorial Occupational Health and Safety Act, Regulations and the appropriate Provincial Electrical Utility Code for reference.



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8.4 MINIMUM REQUIRED TRAINING FOR EMPLOYEES

The following table outlines the general training requirements for Valard Employees. Any employee hired without required training should obtain it within a reasonable time period.

	Managers	Safety Advisor	Area Supervisors	Foreman	Line Workers	Equipment Operator	Labourers	Power System Electricians
Orientation/Electrical Awareness/HS&E Manual Review	R	R	R	R	R	R	R	R
CSO ³ or CRSP	Х	R	0	Χ	Χ	Х	Χ	X
Construction Safety Training System ¹	R	R	R	R	R	R	R	R
Leadership for Safety Excellence ¹	R	R	R	R	0	Х	Χ	0
Principles of Health and Safety ¹	R	R	R	0	Х	Х	Χ	X
Prime Contractor ¹	R	R	R	0	0	Х	Χ	X
Standard First Aid/CPR	0	R	0	R	R	R	R	R
Supervisor Training in House	R	R	R	R	Χ	Χ	Χ	X
WHMIS	R	R	R	R	R	R	R	R
TDG Training	Χ	0	0	0	R	R	Χ	Х
Equal Potential Grounding	0	R	R	R	R	R	Χ	R
Bucket Rescue	Χ	Χ	Χ	R	R	Χ	Χ	0
Traffic Control (Flag Person Training)	Χ	Χ	Χ	0	R	0	R	0
Ground Disturbance	Χ	R	0	R	R	R	0	R
Ground Disturbance (level II)	Χ	R	0	R	0	0	Χ	0
Radial Boom truck Training	Χ	Χ	Χ	R	R	R	Χ	R
Fall Arrest Training	Χ	R	Χ	R	R	R	0	R
Equipment Training (dozer/loader/bobcat /	Χ	Χ	Χ	Χ	Χ	R	0	R

R - Required

O - Optional, but Recommended

X – Not Required

Notes:

- 1 Alberta Construction Safety Association Training Course (Alberta/BC/Saskatchewan/Manitoba Required only)
- 2 Construction Safety Officer Alberta Construction Safety Association Designation
- 3 CRSP Canadian Registered Safety Professionals Designation



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	-		Crew:_ Job Loc	cation:_ ed By:_ EETIN			
1							
2							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
Guest	Speal	ker/Presen	iter:		Topic:		
I have Print N		ded and pa	articipated in this s Signature	safety m	eeting discussio Print Name	n as indic	cated by my signature Signature



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8.5.2 MEETING/ ATTENDANCE SIGN-IN SHEET

DATE:	TRAININ	TRAINING /MEETING SUBJECT						
Print Nam	ie:	Signature:	Company					



Employee Name(Print)

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INTRODUCTION Company History Company Safety Policy RESPONSIBILITY FOR SAFETY Worker Right to Refuse Supervisor Management POLICIES/PROGRAMS Violence/ Harassment Policy Substance Abuse	MEETINGS Tailboards (JHA) Safety Meetings SAFE WORK PRACTICES General Housekeeping Scaffolds Ladders Excavations Hoisting/Rigging Electrical Equipment
Company Safety Policy RESPONSIBILITY FOR SAFETY Worker Right to Refuse Supervisor Management POLICIES/PROGRAMS Violence/ Harassment Policy	☐ Safety Meetings SAFE WORK PRACTICES ☐ General Housekeeping ☐ Scaffolds ☐ Ladders ☐ Excavations ☐ Hoisting/Rigging
 Worker Right to Refuse Supervisor Management POLICIES/PROGRAMS Violence/ Harassment Policy 	☐ General Housekeeping☐ Scaffolds☐ Ladders☐ Excavations☐ Hoisting/Rigging
Right to Refuse Supervisor Management POLICIES/PROGRAMS Violence/ Harassment Policy	☐ Scaffolds☐ Ladders☐ Excavations☐ Hoisting/Rigging
☐ Supervisor ☐ Management POLICIES/PROGRAMS ☐ Violence/ Harassment Policy	Ladders Excavations Hoisting/Rigging
☐ ManagementPOLICIES/PROGRAMS☐ Violence/ Harassment Policy	Excavations Hoisting/Rigging
POLICIES/PROGRAMS Violence/ Harassment Policy	☐ Hoisting/Rigging
☐ Violence/ Harassment Policy	
☐ Violence/ Harassment Policy	Electrical Equipment
Substance Abuse	Grounding
	☐ Pole Climbing
☐ Environmental	☐ Smoking Rules
Behaviour Observation Program	Operating Equipment
Modified Work	
	VEHICLE POLICY
EMERGENCY PROBLEMS	Personal use of Vehicles
Ambulance	☐ Vehicle Operation
First Aid	
Security/Police	PERSONAL PROTECTIVE EQUIPMENT
☐ Incident Reporting	☐ Head Gear
Fire	Eye Protection
GENERAL RULES	☐ Respiratory Protection☐ Hearing Protection
☐ Theft	Foot Protection
☐ Horseplay/Fighting	Hand/Body Protection
☐ Disciplinary Action System	Fall Protection

Employee Signature



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8.6.2 – MEDICAL QUESTIONNAIRE (CONFIDENTIAL)

WELCOME TO OUR COMPANY AND OUR PROJECT

We are sincerely interested in the Health and Safety of all our employees.

In an effort to prevent or minimize potential occupational injury or illness to yourself and others while employed here in our workplace, please complete the following confidential questionnaire:

Please indicate your responses with a check mark.

	No	Yes	
1.	Do you have a hearing impairmed	ent?	
2.	Do you have high blood pressur	re?	
3.	Are you uncomfortable working	at heights?	
4.	Are you uncomfortable working	in confined spaces?	
5.	Do you have diabetes?		
6.	Have you suffered injuries to yo	ur back in the past?	
7.	Do you have epilepsy?		
8.	Do you suffer from any visual im	npairment?	
9.	Do you suffer from any repetitive	e strain injury?	
10.	Have you had an injury in the pa	ast that may affect your work?	
		ns or allergies? Are you taking any ld aware of? (If yes, please explain)	
	owledgement: I hereby verify the edge, and are my responses:	foregoing is accurate and truthfo	ul, to the best of my
Emplo	pyee's Full Name (please print)	Signature	Date
Super	rvisor (please print)	Signature	Date



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8.6.3 SAFETY ORIENTATION ACKNOWLEDGEMENT

I understand that as a condition of my employment, I may be required to complete an employment, job related medical examination. This examination may include appropriate testing to determine the presence or absence of certain drugs or alcohol.

I hereby authorize Valard to conduct through its designated medical examiner said physical examinations as now and may be later determined by the company to be appropriate. I further authorize full release of all test results and medical information to Valard Construction Ltd., and will hold the company, its subsidiaries, their directors, employees, and agents harmless from any claims arising out of the information obtained through the medical inquiries or tests.

I understand that participation in the Modified Work Program is a condition of my employment at Valard

I have received and understood the Harassment and Violence Policies, which states that it is not acceptable and if I'm harassed or being subjected to violence I am to report this to my supervisor and the Safety Department.

Signature of Employee	Date
e.gata.e e. =p.e, ee	2 3.1.0
Valard's Representative	Date
valara o representative	Date

Worker's Training and Tickets: Provide Scans or Copies of tickets

This questionnaire is to be completed by the new employee upon the completion of their



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8.6.4 SAFETY QUESTIONAIRE

ori	entation.
Na	me of Worker: Date:
Ins	structions: Place an X beside the most appropriate response.
1.	Hazard identification and control is important to maintain a safe working environment. No Yes
2.	Working safely is a condition of employment. ☐No ☐Yes
3.	All injuries regardless of how minor must be reported to your supervisor immediately. \[\sum No \supervisor \sum Yes \]
4.	It is important to maintain good housekeeping in your work area. ☐No ☐Yes
5.	You observe an unsafe condition on site, should you: Wait for a tailgate or safety meeting and report it. Report it immediately to your supervisor. Let someone else worry about it.
6.	Personal Protective Equipment (i.e. hearing protection, eye protection, hard hat, etc) should be worn whenever: Someone else is wearing it. Your supervisor advises you to wear it. The potential for personal injury exists.
7.	Is it your responsibility to know and understand the OH&S regulations pertaining to your work area and equipment?
8.	Is it your responsibility to refuse unsafe work where imminent danger exists or may exist? No Yes



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9. It is your employer's responsibility to provide a safe work place.	
□No □Yes	
 Tools and equipment whose guards are inoperative or missing are Others once." 	K to use "just
□No □Yes	
Signature of Worker:	
Reviewed By:	
PERSONAL PROTECTIVE EQUIPMENT POLICY (for employees and sub-contractors) All employees and sub-contractors will use the proper PPE at all times, when and where required.	
DISCIPLINE POLICY (for employees and sub-contractors) I understand the Discipline Policy as explained to me during the orientation process	Initial
SAFETY POLICY STATEMENT I understand the contents of the Safety Policy Statement and the company's commitment to a safe work place. This includes the Harassment and Violence Policies and my role in reporting of them.	Initial
SAFETY / EMERGENCY/ FIRST AID EQUIPMENT I will acknowledge the location of all safety, emergency, and first aid equipment. I further acknowledge the location of the MSDS binder and the emergency meeting location.	Initial
SAFETY HANDBOOK am responsible for reviewing Valard's Employee Safety Handbook and understand that adherence to all rules and regulations set by Valard are a condition of my employment. Any infractions of these rules may result in my dismissal.	Initial
	Initial



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PHYSICAL CAPABILITIES & DEMANDS I understand the physical demands of my job a acknowledge that I am physically capable of do required tasks. I further acknowledge that a mexamination may be required to determine my to perform my job duties.	oing the edical
	Initial
MODIFIED WORK PROGRAM	
I understand the modified work program and a that I am aware that it is a condition of my emp I will participate in it.	
	Initial
Employee: (signature)	
Or Sub-Contractor: (signature)	
Signature of Valard's Rep:	
Date:	

RIGHT TO REFUSE

The following are the steps to be followed when raising a refusal to work due to imminent Danger:

Step 1:

The employee reports the situation to the Foreman or other appropriate management staff and the Safety Coordinator.

Step 2:

The superintendent or other management staff member investigates the situation in the presence of the worker, the Safety Coordinator (if available), or a person chosen by the refusing worker.

Step 3:

If the investigation results in improvement or clarification satisfactory to the worker, he/she returns to work.

If there is insufficient improvement or clarification and the employee still has reasonable grounds to refuse, the employee or the employer or both, notify the OH&S inspector.

Step 4:

The inspector examines the situation in the presence of the person named in step 2. The inspector gives an order either requiring improvements or requiring that the employee return to work.

Valard



Muskrat Falls Transmission Line Incident Report - environment

	RAFT REPOR	RT		FINAL REPORT					
Date of Incide	ent: mmm/dd/y	уууу	I	Incident report#:					
Incident type:	Spill (section 1)	nvironment	al dam	nage	(section 2) Animal	interaction (se	ection 3)		
Company responsib	ole for incident: 🔲	/alard □Oth	ner:						
Supervisor on site:				Coi	ntact phone #:				
Who was the incide	nt reported to:				When:	mmm/dd/yy	уу		
Weather: ☐Sunn	Weather: Sunny Raining Overcast Windy Snowing Hailing Other:								
Temperature °C	Was anything r	emoved fro	m site	\[\]	Y(see section 4)				
REPORT REVIEW	– for internal circu	ulation until	l auth	orize	d for release				
Safety Advisor:			PM		signature				
HSE Manager:	signature		Proj	Dir	signature				
SECTION 1 – SPIL		3o to Section			<u> </u>	T			
Time started (appro	-				stopped (approx):	hh:mm			
Substance(s) involved (list all substances involved; attach all applicable documentation (e.g. MSDS, products sheets, etc):									
•									
Location of incident	<u> </u>		e, cross	street,	etc):	l ₅			
Quantity:	(other measure:		4- 6-	4 !	. Ab when commis		egradable: Y		
SECTION 2 – ENVI					-		ated costs		
Site ID	1	oordinates	ere uari	lageu)	General Extent of				
a:	0.00				☐minor ☐moderate		remediation		
b:					 ☐minor ☐moderate		□remediation		
c:					 □minor □moderate		remediation		
d:					 ☐minor ☐moderate	extensive	remediation		
Pictures Available:	□Y □N Inc	cluded in this	s repo						
Water course enter	ed (unauthorized):	□Y Loc	cation((name):				
Is this area conside	red sensitive:	□Y Sei	nsitivit	:y:	wetland □fish bearin	g	ea		
SECTION 3 - ANIM	IAL INTERACTION	N/SIGHTING	G⇔Go	to S	ection 4b when co	mpleted			
Location where inci	dent occurred (at or	near):							
Animal involved: Bear Cougar Ungulate (moose mountain goat deer caribou elk) frog toa							k)		
Was the animal ago	gressive Y]N	Was	s ther	e young visible:	□Y □N			
Describe the action	s of the animal:	☐Territoria	al □P	redat	ory (circling)	nsitional (pass	sing through)		



Muskrat Falls Transmission Line Incident Report - environment

	1.									
Found a dead anim	nal: 🔲 Y	Found a	wounded a	nimal:]Y Anii	mal at a kill:	□Y			
Dead/wounded due	e to:	ehicle Anii	mal Hum	nan (e.g. hunt	er) Ot	her:				
SECTION 4A – CO	STS ASSO	CIATED WIT	H INCIDE	NT						
SECTION 4b - IN	/ESTIGATIO	N DETAILS								
What was the caus	se of the inci	dent:								
Details of what was affected by the incident (environmental impacts):										
Describe the action	ns taken to re	sponds to th	ne incident(equipment use	d, worker	actions, etc):				
Identify corrective a	Identify corrective actions taken (clean-up, remediation, etc):									
Date started:				Date comp	leted:					
Reviewed by:				On Date:						
For contamination	removed fro	n site (soil, wa	ater, etc)							
	Amount:	Lt		TDG	weigh bi	Il required []Y			
	Where wa	as it taken:								
	Weigh bill	#:			Da	ate/Time	By Who			
Was anyone injure	d as a result	of the incide	nt?	\square Y \square N						
Was PM contacted	l?			\square Y \square N						
Was HSE Manage	r, BC contac	ted?		□Y□N						
Was the contractor	contacted (d	ontractor incide	ent only)	\square Y \square N						
Ministry of Environ	ment contac	ted?		\square Y \square N						
Other Agencies Co	ntacted?			\square Y \square N						
	Name:									
	Name:									
	Name:									
Other People Cont		\square Y \square N								
	Name:									
	Name:									
	Name:									



Muskrat Falls Transmission Line Incident Report - environment

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SECTION 12- EMERGENCY PREPAREDNESS

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12.4	Fire Protection and Prevention
12.5	Emergency Procedure Phone Contact Form



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12.1 EMERGENCY PREPAREDNESS POLICY

It is the policy of Valard Construction that all projects shall have in place an emergency response plan specific to the potential hazards of the project. For projects designated by the Corporate Health, Safety & Environmental Manager, emergency preparedness drills will be conducted. Valard Construction shall provide first aid facilities as required by provincial/federal regulations.

12.2 EMERGENCY/FIRST AID RESPONSE PLAN

To be effective, an Emergency Response/First Aid Plan must be tailor made for the site that it is intended for. Emergency Response needs should be discussed during the initial project hazard analysis and a procedure developed and made available to all employees.

Items that should be considered include:

- Legislated requirements for first aid training and facilities and
- Provide a plan to provide prompt First Aid to injured worker/s
- Distance of the site from an advanced medical care facility and time to reach a medical facility.
- Provide a Emergency Transport Vehicle if required
- A Level 3 first aid certificated attendant will be required
- Availability of client provided first aid and emergency resources
- Availability of Valard Construction first aid resources
- Location and availability of professional emergency services (fire, ambulance, police)
- Review types of injuries that may be incurred on the worksite
- If air transportation is the primary or only method for transporting an injured worker, before the start of operations in a workplace, arrangements must be made with an air service to ensure that an appropriate aircraft is reasonably available to the workplace during those operations, and a system in place in case of the unavailability of the aircraft the provider must notify the employer and a means of communication between the pilot and first aid provider if no medical assistance is not provided with the aircraft company.
- Special situations that may be encountered (e.g. confined space rescue, high angle rescue)
- Hazards specific to the work site (e.g. product releases at petrochemical facilities, work over water)
- Methods of internal communication available, radio, Sat phone, cell phone*, land line phone, horn, alarm etc.
- Methods of external (off site) communications (radio, Sat phone, land line, cell phone* etc.)
- Internal fire fighting capability



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- Emergency evacuation procedures and muster points
- Requirements for Environmental Spills (spill kits, absorbent)
- Contact numbers for Federal and Provincial reporting (OH&S, Environmental incident)

FIRST AID:

First aid equipment, supplies and facilities must be kept clean, dry and ready for use, and be readily accessible at any time a worker works in the workplace. Conspicuously posted signs at the work site will direct workers to where First Aid supplies are available. Locations of First Aid Kits are in each vehicle used on any site, and identified on each daily tailboard. This first Aid Kit must be kept in the interior of the vehicle to insure a clean and safe environment for storage.

First aid training will be provided by:

- EMP
- St. John's First Aid
- Canadian Heart foundation

Valard's policy is to provide First Aid Training to a minimum of 80% of their employees. This is due the fact that crews change at any moment's notice, travel to different work sites. This policy insures that every crew of 4 has at least 2 qualified first aiders. Training providers are to inform the corporate office of all workers' successful completion of training with supporting documentation; this will be inputted into the training database.

Where the site is more than 20 minutes from a medical facility a Mobile treatment centre will be based at the worksite.

When developing an emergency response plan See Emergency Preparedness Form and complete the required numbers and a list of contacts to call in the event of an emergency so that all employees are aware of it. This procedure must be posted in areas where workers are present such as lunchrooms, vehicles and the site office. This must be communicated and discussed with the workers for their input to insure their understanding and also discussed at the start of the job as well as during it. If required a list of the landing points for Stars or other aircraft to be able to locate must be identified on page 4 of an Emergency Preparedness Form.

This plan must be reviewed on a monthly basis as well when conditions or services change.

* It should be noted that cell phone communication is not ideal in all situations due to possible service disruption and the tendency for cellular towers to be overloaded with calls during widespread emergencies. An example of this would be the Pine Lake tornado disaster in Alberta, in which only one cell phone call was received by the local the ambulance service before towers were overloaded and failed to function.

Emergency Equipment provided:

- Blankets In site office (also in MTC (mobile Treatment Centre) if available
- First Aid kits (in all vehicles)
- Stretcher (available in Site office or MTC



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Emergency procedure as to location of hospitals Medi-centres etc. shall be identified on worker's daily Tailboards (Hazard Assessments) This includes land locations, directions to a hospital, identify the First aiders on crew, directions for the emergency crew and the emergency phone numbers. Crews must address this daily as they may be changing locations daily, Pole/structure locations have the land locates identified on them. These must be identified on all daily tailboards. All workers will attend an annual training program for both Pole top rescue and Bucket rescue, this documentation is to be sent to the corporate office. In case of an emergency the means of transporting the injured worker to a hospital must be addressed at each site. A dedicated vehicle must be identified on each crew. In cases where there is a MTC available then the attending EMT will insure that the worker is transported in an appropriate vehicle.

All records of injuries must be sent to the corporate office for retention for a period of not less than 3 years from date of injury.

12.3 EMERGENCY PREPAREDNESS DRILLS

For projects as designated by the Health, Safety & Environmental Manager, emergency preparedness drills will be conducted quarterly.

All personnel on site should be notified in advance of the drill. An incident should be simulated and observations made of the response. A post drill meeting should be conducted to review the response and address any deficiencies.

12.4 FIRE PROTECTION AND PREVENTION

A fire team will be established on sites when the risk of fire is high. The Project Management or designate and the Project HS&E Advisor shall establish the Fire Team. The Area Fire Team will be organized with specific duties being designated to each member.

The type of project and associated hazards will determine the need for a Team, its size, functions and specific duties.

An individual will be appointed by the Project Superintendent to act as Fire Team leader. Team members should always ensure they are able to escape in the event the fire is out of control. Team duties shall include as a minimum:

- Sounding the alarm or notify the work force using the pre-established emergency summon.
- Notifying the local Fire Department.
- Directing fellow workers to the evacuation area.
- Fighting the fire with available equipment, if safe to do so, until assistance arrives.
- De-energizing power to machines and equipment.
- Closing-off fuel supply to furnaces, ovens, temporary heating facilities, etc.
- Closing doors to contain fire.
- Removing combustible materials from threatened areas.



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- Closing-off valves on lines that carry flammable fluids.
- Spreading waterproof covers over open floor drains to minimize water damage.
- Removal of vehicles or equipment from threatened areas.
- Guiding municipal fire fighting personnel to fire.
- Assisting police in crowd control.
- Maintaining access for fire fighting and other emergency vehicles.
- Re-establishing the fire fighting capability after the fire has been extinguished (i.e. spent fire extinguishers recharged or replaced immediately).

Important: No Fire Team member shall place his or her own personal safety at risk. Additional direction for investigation, cleanup and reconnection of services will be provided by the respective fire agency, during their investigation of cause.

The HS&E department on an annual basis will arrange the training of the Area Fire Team

It is essential that organizers of Fire Team impress upon its members that the Team is only the first line of defense against a fire. Caution must be exercised and the Team members are instructed not to place themselves in danger at any time.

12.5 COMMUNICATION WITH WORKERS, PUBLIC AND MEDIA

If and when an emergency occurs, the workers will be advised by sounding the horns on the trucks as well as utilizing the 2 way radios that are in all pieces of equipment. The following company officials will only be permitted to talk to either the general public and/or media:

- o President
- Vice-President of Transmission Projects
- Vice President of Health, Safety and environment

Following an actual incident, the response shall be reviewed to evaluate effectiveness and to correct deficiencies.

Regulatory References:

Alberta

- Part 7 Alberta's OH&S Code (Emergency Preparedness)
- Part 11 Alberta's OH&S Code (First Aid)
- Part 11 Alberta's OH&S Code, Schedule 2, tables 5, 6, &7

British Columbia

- Occupational First Aid Sections 3.14 3.21
- Enacted by B.C. Reg. 348/2003, effective March 30, 2004.
- Amended by B.C. Reg. 320/2007, effective February 1, 2008



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Yukon

- Yukon Workers Health and Safety Board. Minimum First Aid regs.
- Sections 1-21 including tables 2-12 inclusive

Saskatchewan

The Occupational Health and Safety Regulations, 1996

Manitoba

Workplace Health and Safety Regulation 217/2006 Part 5 First Aid

Northwest Territories/Nunavut

Part III of the Act First Aid Service Requirements



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EMERGENCY RESPONSE PLANNING

This procedure is to aid in the development of Emergency procedures for work activities in remote areas and to be performed in a safe and efficient manner.

Objective: The following is a list of items which must be addressed and questions that need to be answered and addressed in order that a plan is in place in case of an emergency. It is to be reviewed by everyone so that they are aware of the actions that must be taken to reduce the impact of the emergency itself.

1. Goals:

- To ensure timely response.
- To provide transportation (how?)
- To provide immediate treatment to injured worker.
- To safeguard the general public.
- To prevent additional injury or damage to the rescuers and environment.

2. Communication:

- Radio system or cell phones (check if there is cell coverage) Ensure that the 911 number is available in the working location.
- Note the phone numbers or system to be used in daily tailboards.
- Have workers review emergency numbers in the safety meetings (document)

3. Potential Emergencies:

- Hoisting Equipment upset
- Electrical contact (worker).
- Fall from height.
- Heart attack/stroke
- Motor vehicle accident
- Personal injury (fractures, deep cuts, loss of consciousness).
- Aircraft accident.



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The following pages contain the emergency process required to be completed and reviewed at safety meetings. (Please place numbers and contact names in appropriate locations). The Emergency process is to be conspicuously posted throughout the work site and beside site office phones. All supervisors / Forman must carry the ERP with them.

Page 3 - Provide numbers to call and give a copy to the workers.

Page 4 - Provide GPS locates for each area where aircraft can land and/or actual emergency muster point locates (GPS). (Provide this to workers to identify their GPS locates). Insure workers add this information on the tailboard. Ask client for the GPS locates or identify them yourself.

4. Directions required:

- Identify local communities where there is a hospital.
- Write down exact directions to the nearest hospital so that workers know the directions.
- Make sure they write this in their daily tailboards.



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EMERGENCY PROCEDURE

- 1. Protect yourself
- 2. Control the scene
- 3. Call the foreman or the EMT's phone number
- 4. Provide first aid (if trained)
- 5. Keep individual warm while waiting for assistance

CALLING FOR ASSISTANCE

Information required

- 1. Your name and call back number.
- 2. Location GPS or other.
- 3. Type of injury(s).
- 4. Number of injured.
- 5. Call Valard's EMT for assistance.
- 6. Advise Stars of Emergency.
- 7. Ask if response will be land or air and the approximate time.
- 8. Keep line free for follow-up calls from Stars.
- 9. Instruct someone to wait at the pre-determined location to meet the emergency crew.

COMMUNITY	AMBULANCE	HOSPITAL	FIRE DEPT.	RCMP
				911
STARS	888-888-4567			

POSITION	CONTACT	PHONE NUMBER
Valard's Safety Department		
Valard's Head Office		
Client's Site Supervisor		



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		EMERGENCY MUSTER	PO	INTS	3					
LAND LOCATION						STARS REG#	W LONGTITUDE			

NOTE: Provide this information to the workers every day to be noted on their tailboard.



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SECTION 9 - INSPECTION & MONITORING

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9.1 HEALTH, SAFETY AND ENVIRONMENTAL INSPECTION AND AUDIT POLICY

Valard through its entire employee's will maintain Health, Safety and Environmental Inspection and Audit programs involving formal and informal inspections and Audits.

Informal Health, Safety and Environmental inspections are to be performed on a continuous basis by all supervisory and management staff. All hazards are to be corrected at once.

It is the responsibility of the Area Supervisor's and Manager's to ensure that formal Health, Safety and Environmental Inspections are performed on a bi-weekly basis. A copy of the Health, Safety and Environmental Inspection Report will be forwarded to the Corporate HS&E department for review.

The Health, Safety and Environmental Manager will also conduct inspections on as need basis. PPE will be inspected on quarterly basis by the site Safety Advisor including the worker. This information will be recorded on Form # 9.6 located in section 9 of the HS&E Policy Manual.

All unsafe acts or practices observed during formal Health, Safety and Environmental inspections are to be placed on the next Health, Safety and Environmental meeting agenda.

The Health, Safety and Environmental Manager will or appoint a certified Auditor to conduct formal and informal Audits as a minimum every 12 months as directed in the Health, Safety and Environmental Audit Procedure.

9.2 HEALTH. SAFETY AND ENVIRONMENTAL AUDIT PROCEDURE

PURPOSE

To define the process for conducting periodic audits of the Health, Safety and Environmental Program. The procedure defines the process for scheduling, conducting, and reporting of Health, Safety and Environmental audits.

SCOPE

This procedure applies to all internal Health, Safety and Environmental audits conducted at the site. The scope of Health, Safety and Environmental audits may cover all activities and processes comprising the Health, Safety and Environmental Program or selected Sections or Policies.



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GENERAL

Internal Health, Safety and Environmental audits help to ensure the proper Implementation and maintenance of the Health, Safety and Environmental Program by verifying that activities conform to documented procedures and that corrective actions are undertaken and are effective.

All audits are to be conducted by Alberta Construction Safety Association trained Auditors.

When a candidate for Health, Safety and Environmental auditor is assigned to an audit team, the Health, Safety and Environmental Manager will prepare an evaluation of the candidate auditor's performance following the audit.

The Corporate HS&E Manager is responsible for maintaining Health, Safety and Environmental audit records, including a list of trained auditors, audit or training records, audit schedules and protocols, and audit reports.

Health, Safety and Environmental audits are scheduled to ensure that all of the Health, Safety and Environmental Program elements are audited at least once each year.

The Corporate HS&E Manager is responsible for notifying ACSA of any upcoming audits a reasonable time prior to the scheduled audit date. Site areas and functions subject to the Health, Safety and Environmental audit will also be notified a reasonable time prior to the audit.

The Corporate HS&E Manager is responsible for ensuring that the audit, audit report and any feedback to the site areas or functions covered by the audit is completed per the audit schedule.

The Site Safety Advisor/Area Supervisor, in conjunction with the Corporate HS&E Manager, is responsible for ensuring that Audit Action Items are prepared for audit findings, as appropriate.

PROCEDURE

- Audit Team Selection One or more auditors comprise an audit team. When
 the team consists of more than one auditor, a Lead Auditor will be designated.
 The Lead Auditor is responsible for audit team orientation, coordinating the audit
 process, and coordinating the preparation of the audit report.
- 2. Audit Team Orientation The Lead Auditor will assure that the team is adequately prepared to initiate the audit. Pertinent policies, procedures, standards, regulatory requirements and prior audit reports are made available for review by the audit team. Each auditor will have appropriate audit training from the ACSA.
- **3. Written Audit Plan** The Lead Auditor is responsible for ensuring the preparation of a written plan for the audit.
- **4. Prior Notification** The site areas to be audited are to be notified a reasonable time prior to the audit.
- 5. Conducting the Audit
 - a. A pre-audit conference is held with appropriate personnel to review the scope, plan and schedule for the audit.



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- b. Auditors are at liberty to modify the audit scope and plan if conditions warrant.
- c. Objective evidence is examined to verity conformance to Health, Safety and Environmental Program requirements, including site procedures. All audit findings must be documented.
- d. Specific attention is given to corrective actions for audit findings from previous audits.
- e. A post-audit conference is held to present audit findings, clarify any misunderstandings, and summarize the audit results.

6. Reporting Audit Results

- a. The Team Leader prepares the audit report, which summarizes the audit scope, identifies the audit team, describes sources of evidence used, and summarizes the audit results.
- Findings requiring corrective action are entered into the corrective action database.

Audit Report Distribution

- a. The Corporate HS&E Manager is responsible for communicating the audit results to responsible site management. The Corporate HS&E Manager will make copies of the audit report available.
- b. The Corporate HS&E Manager is responsible for ensuring availability of audit reports for purposes of the annual Management review.

8. Audit Follow-up

- a. Management in the affected site is responsible for any follow-up actions needed as a result of the audit.
- b. The Corporate HS&E Manager Manager is responsible for tracking the completion and effectiveness of corrective actions.

9. Record Keeping

Audit reports are retained for at least two years from the date of audit completion. The Corporate HS&E Manager is responsible for maintaining such records.

9.3 HEALTH, SAFETY AND ENVIRONMENTAL INSPECTIONS

Informal site inspections are to be performed on a continuous basis by management and supervisors. Formal site inspections are to be performed a minimum bi-weekly.

The inspection team is to be made up of at least one supervisor and at least one worker (chosen on a rotational basis).

The inspection team will tour:

The entire site

Or:



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• On larger projects, a designated portion of the site. If only a portion is completed, additional inspections will be required to ensure the entire project is inspected once bi-weekly.

Following the inspection, form 9.4a must be filled out for site inspections and 9.4b for office and shop inspections

- All deficiencies found must be noted on the checklist (if applicable) and on the summary.
- Any item on the summary must be assigned to an individual for corrective action. The corrective action must be carried out by the due date and signed off.
- Completed inspection forms are to be submitted to Corporate Safety in a timely manner.



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9.4a SITE SAFETY INSPE	CTION VC#:
Inspected by:	Date:
,	Satisfactory, A = Action Required, NA =Not Applicable by the inspector(s) along with the recommended corrective action for each item

Class 1 –Rectify in 8 hours Class 2- Rectify within 2 days Class 3- Rectify within a week Class 4 –Rectify within a month

1. Site Trailers / Buildings S. A N. A. N. N. Compressed Air & Temporary Heaters S. A. A. Adequate accesse/gerges for emergencies D. Lunch noom clean and free of hazardous material D. D. Hose connections wired together (whip checks) D. D. D. D. D. D. D. D	Inspection Item Requiring Correction (List Iter	m # frc	m ab	ove)		Hazard	Responsibility Assigned	Corrective	Verif	icat	ion
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a. All compressed air equipment used safely	c. Tools and cords in good condition							[]	
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a. Aldequate access/egress for emergencies	a. Hard hats, glasses, footwear, and high visibility b. Proper respiratory protection where applicable				b. Fla	ashback arresto rlinders secure	ors installed d, capped when not in use]]]	
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9.4b SHOP/OFFICE SITE SAFETY INSPECTION

Supervisor: Inspected by:			_	op/ Office: e inspected:		
Instructions for completing the form: Complete the status columns checking S = Satisfact Hazard Class priorities shall be determined by the indentified as A (action required). Corrective actions	nspecto	or(s) a	along v	with the recommended corrective action for each item		
Class 1 -Rectify in 8 hours Class 2- Rectify within	n 2 day	/s C	lass 3	- Rectify within a week Class 4 –Rectify within a month		
Shop Inspection Criteria				Office Inspection Criteria		
Buildings a. Adequate access/egress for emergencies b. Lunch room clean and free of hazardous material c. Waste receptacles provided and emptied regularly d. Copies of HSE Manual available e. Copies of applicable legislation available	s 	A	NA	 10. Buildings a. Adequate access/egress for emergencies b. Lunch room clean and free of hazardous material c. Waste receptacles provided and emptied regularly d. Copies of HSE Manual available e. Copies of applicable legislation available f. First aid kit and supplies maintained 	S A	
 2. First Aid & Medical a. First aid kit and supplies are maintained b. Eye wash station free from obstructions and clean c. MSDS books up to date and accessible 3. Minimum Posting 				 g. MSDS books up to date and available 11. Minimum Posting a. Current safety policy b. Emergency phone numbers and directions posted c. Fire and emergency evacuation procedures 		
a. Current safety policy b. Emergency phone numbers and directions posted c. Fire and emergency evacuation procedures d. Memos, bulletins and reminder posters e. PPE free zones identified				d. Memos, bulletins and reminder posters12. Individual Work Stationa. Sufficient ventilationb. Sufficient open floor space		. –
4. Housekeepinga. Tools and storage areas neatb. Working areas orderlyc. Garbage container emptiedd. Electrical panel clear access				13. Work Station Behaviorsa. Maintain neutral postureb. Keep arm levelc. Keep elbows ind. Avoid extended reaches		_
5. Fire protection & prevention a. No Smoking posted and enforced where prohibited b. Extinguishers available with inspection & seal intact c. Fire extinguishers marked and visible 6. Personal Protective Equipment				 14. Walking Surfaces a. Aisles correctly established and clear b. Tripping hazards clear c. Matts available to prevent slipping hazards d. Floors dry – not slippery 		
 6. Personal Protective Equipment a. Hard hats, glasses, footwear, and high visibility b. Hearing protection when required c. Visitor PPE available 7. Tools 				15. Halls, Ramps and Lightinga. Adequate lighting suitable for workb. Ramps have non-slip surfacesc. Handrails installed and in good conditiond. Halls kept clear of equipment and supplies		=
a. Proper tool being used for each job b. Damaged / defective tools, tagged and removed c. Tools and cords in good condition d. Mechanical guards in place and working order 8. Hoists & Cranes				16. Storage Areas a. Shelves and file drawers safety loaded b. Heavy items stored close to the ground c. Overhead storage material secured		
a. Check slings for defects and damage b. Hand signal posted, understood, and observed c. Signal man identified with vest and wristbands 9. Welding & Cutting				 17. Office Equipment a. Chairs (springs, casters, hydraulics) in good repair b. Safety step / ladders available c. Chemicals properly stored d. Paper supplies and Material safely stacked 		
 a. Screens, shields and eye protection available b. Flashback arrestors installed c. Cylinders secured, capped when not in use d. Checked before using, leak free e. Cylinders stored away from flammable material 				18. Electrical Hazards a. Temporary heater plugged directly to outlet b. Proper multi-outlet devises used c. Extension cords –maximum length 10ft (3 M)		



Docum	nent D	Description	Inspections/ Monitoria							
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9.5 MONTHLY FIRE EXTINGUISHER CHECKLIST

Fire Extinguisher Number	Location	Date	Remarks



Docum	ent D	Description	Inspections/ Monitoring							
Created	Ву:	A. Felczak	Doc. Num	ber	Health, \$	Health, Safety & Environmental Policy 9.00				
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9.6 PPE INSPECTIONS

NAME	ITEM	DATE	REMARKS



Docum	nent D	Description	Inspections/ Monitori							
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9.7 FALL ARREST EQUIPMENT INSPECTION CHECKLIST

	Lanyard		Body Belts
	Check rope for damaged fibers and strands		D-Rings not bent or corroded
	Inspect the splices for loose strands		Free from cuts or tare
	Thimbles in good shape/secure		Rivets and stitching intact and secure
\Box	Hooks - free of cracks, corrosion pits or		Seat belt free from contamination
	distortion		No handmade hooks
	Keeper freely without binding and the spring		Hardware attachments in good order (no
	exerts enough pressure to remain firmly closed.		burns, or loose stitching) Properly attached tool bag
_		∐ Dom	, ,
	Check shock absorber for signs of over tension	Keiii	arks:
П	Identification tag and labels are in place and		
_	legible		Body Harness
Rem	arks:		D-ring pad free of rips
			Rivets tightly secured
			Grommets must be tight
	Hooks / Gaffs		Buckles are working properly and not bent
	Acceptable hook length		Webbing free from cuts, broken/pulled
	Nylon straps in acceptable order		stitches, frayed or damaged strands
	Hooks acceptably sharpened		Buckles and D- rings free from cracks and deformities
	Gaffe screws tight		
	All adjustable and replaceable parts in good order and securely fasted	Rem	arks:
Rem	earks:		Pole Straps
			Free from wear and cuts
			Attachments in good order
		Rem	arks:
	-		
ork			

<u>Don't take any chances!</u> If your Fall Protection is damaged, malfunctioning, or just showing signs of excessive wear, take the safe route and replace it. When replacing a lineman's belt or any other piece of fall protection equipment, don't just discard it... destroy it! This prevents anyone else from using it and injuring themselves.



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SECTION 11 - INVESTIGATIONS

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11.3.2	Environmental Incident Form
11.3.3	Statement Form



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11.1 INVESTIGATION POLICY

It is the Policy of Valard Construction to have all incidents reported utilizing the Notification/Investigation Report Form 11.3.1.

If the incident requires investigation it must be classified either Level I, Level II or Level III and it is to be thoroughly investigated.

Vehicle accidents must be reported on form # 11.3.1 (Incident Notification Form) and if available the Police report must also be attached. In case of a serious or major environmental spill the Environmental Incident Report Form 11.3.4 must be completed. The purpose of such investigations is to determine the basic root causes of the incident so that appropriate action can be taken to prevent its recurrence.

11.2 INVESTIGATION PROCEDURE

All incidents that result in First Aids, Lost Time Injury, Medical Aids, Modified Work, or Near-Misses that could have resulted in serious injury or property damage are to be thoroughly investigated. All investigators will be trained in investigative techniques. The Area Supervisor in conjunction with the Safety Advisor shall lead the investigation unless otherwise indicated by the VP of Health and Safety. The investigator shall take statements from witnesses or others who may have relevant information and thoroughly review the site and all pertinent evidence. All incidents must identify action items that will reduce the likelihood of re-occurrence. The lead investigator shall forward the Investigation Report to the Corporate HS&E Manager within 48 hours of the incident. A copy of the report shall be forwarded to the VP of Health, Safety & Environment within 48 hours. The VP of Health, Safety & Environment shall review all corrective action notices implemented.

Steps:

- 1. Secure area of incident. Rope off area and keep all personnel away.
- 2. Inform client, Valard's OH&S department and the appropriate Provincial government OH&S Office or the equivalent in other jurisdictions/provinces such as in Ontario (MOL), Yukon, NWT, British Columbia (WCB).
- 3. Have all witnesses complete a detailed statement as to what they either witnessed or heard.

All Investigation Reports will be reviewed at the next Health, Safety & Environmental meeting.

All Investigation Reports and new appropriate measures will be reviewed at regularly scheduled staff meetings.

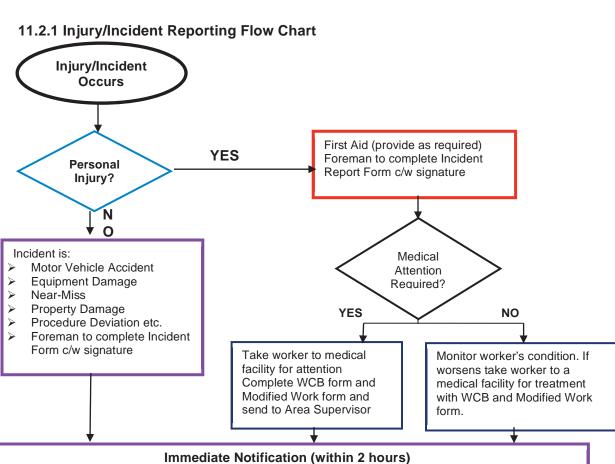
Workers will be instructed to report injuries (including minor scratches, muscle strain and particles in the eye, etc.) immediately to their foreman or supervisor. All incidents regardless of their severity shall be initially reported utilizing Incident Notification/Investigation Report Form 11.3.1. Employees should be instructed that if they must leave the job for illness or injury (either work related or non-work related) they must notify their supervisor.

Any employee seeking the care of a physician following an occupational injury or illness will be given a Modified Work Package for the physician to fill out (see Section 15 Modified Work), and will be instructed to report any anticipated loss of work time to



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his/her supervisor as soon as possible. When modified work is required, it will be arranged for as per Section 15 of this manual using the information provided by the Physician. If the Employee visits a medical clinic they and their supervisor will fill out the appropriate Workers' Compensation forms as prescribed by legislation. Immediately notify the Director of Health and Safety, and forward any all required WCB, (WSIB in Ontario) forms within 24 hours of the incident.



- Foreman to notify Area Supervisor
- Area Supervisor notifies Area Manager who will contact (depending on severity) the respective VP, Safety Contact, etc.
- All WCB and Valard Incident forms to be sent to Area Manager for further distribution

Usually there is no further action. However, you must contact Area Supervisor if the following occurs:

Non-medical attention injury now requires medical attention. Example, worker reports sore back, no medical attention initially required. Two weeks later back is still sore and wants to see a doctor. WCB report must be sent to area Supervisor. This includes seeing a specialist.



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11.2.2 Incident Classification and Investigation Process

Incidents are classified to differentiate from those that do not require a full investigation process from those that do.

For all incidents regardless of its severity must be reported on form # 11.3.1

For environmental Incidents use form # 11.3.2

LEVEL I: (Requires an incident report)

- First Aid
- Medical Aid (no high potential injury i.e. small cut to finger)
- Non-injury vehicle incident less than \$1000.00 damage
- Occupational Illness
- Loss of Property
- Damage to property or equipment less than \$1,000.00
- Procedure deviation with no damage

LEVEL II: Requires an investigation

- Lost Time or Medical Aid with high potential to cause permanent impairment
- Environmental noticeable but repairable short-term damage
- Vehicle incident with greater than \$1000.00 damage
- Vehicle incident with 3rd party injury
- Contact with either underground/overhead lines
- Procedure deviation that caused damage or an unscheduled outage
- Criminal Acts or threats to employees
- Damage to property or equipment greater than \$1000.00 and less than \$500,000.00

LEVEL III: Requires a full investigation (Tap Root Investigation Process)

- Death or permanent disability
- Environmental damage that may cause long term harm
- Damage that could exceed \$500,000.00
- Bomb threat or an attack against person resulting in serious injury or death, etc.

NOTE: For any incident in Level II and III the site must be secured and all workers involved must participate in the investigation.

References:

OHSAS 180001:1999 Section 4.5.2 Accidents, incidents, non-compliance, and corrective and preventative action.

Federal OSHA Voluntary Protection Program (VPP)

29 CFR 1904 (Recording and Reporting Occupational Injuries and Illnesses



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11.	3.1 Injury/Pro	perty/	Vehicle Incid	ent Report	l	I		
	T IDENTIFYING IN	FORMA	ΓΙΟΝ	1				_
Incident	Title:			Incident Location:	(enter street a	ddress or land location)	VC Nu	ımber:
Division	ı (i.e. Transmission	, Shops,	Substations, etc.):	Crew Leader:	Crew Leader: Supervisor:			
Incident	Date:		Incident Time:	Reported by (Perso	Reported by (Person Completing this Report):			
INCIDENT Type Act	INFORMATION Potential		Frequency for	Occurrence · Likely to occur repea	edly.	Potential Equipment/I Major - Higher th		
	r Miss 🔲 Med	ium	Occasional	- likely to occur some		☐ Serious - \$1000 to	\$10,000	00
	☐ Low		☐ Rare - Not	likely to occur		☐ Minor - Less than	\$1000	
Energy 9	Sources & Potentia	ıl Hazarı	ds					
Lift Slij Rep Mecha Ca Fai Fly Sha Pressu Cor	ught/Hit By lure ing Particles arp Tools		etrical Backfeed Flash Induction Live Conductor Step Potential Fuse Apparatus Failure Grass Other	Gravity Fall From Height Falling Object Falling Structure Property Damage T Abuse Fire Procedural Struck By Wear and Tear Lost Malfunction		raffic hicle Collision ehicle Rollover	C	onfined Space forrosive lammability browning xplosive
For Inju	ries/Illness Only (Classific	ation:	F.A. \square M	.A. 🔲 L	TI N/A		
Body Pa	rts Injured - (circle	one or i	more of the parts lis	ted)		T' /I 1 1		TT 1 / 1 1
	Eyes		☐ Head	(includes face, neck)		Fingers (Includes thumb)		Hands (includes wrist)
	Arms (includes el	bow)	☐ Back			Knees		Legs
	Trunk (includes c shoulders)	hest, hip	os, \square Feet (i	ncludes toes, ankles)		Internal		Other
Nature o	of Injury - (circle or	ne or mo	ore)					
	Cut Shock Burn Other		Fracture Welder's Flash Exposure		Allergy Bruise Puncture	☐ Sprain ☐ Crush ☐ Amputation	n	Scrape Foreign Body Dermatitis

.		nent Descripti	on			lı lı	ncident lı	າvestiç	gation l	Policy
VALARD	Created	By: A. Fel	czak Doc. Nu	mber	Healt	h, Sa	ifety & Env	rironme	ntal Poli	cy11.00
A QUANTA SERVICES COMPA	Date:	Sept. 23, 2	003 Revision	n: 5	Revised b	oy: /	A. Felczak	Date:	Jan.3, 2	013
SONS INVOLVED		1			1				1	
mployee Name:		Tit	le			Com	pany Name:			
ITNESSES Jame:					I	Com	pany Name a	nd/or Pho	ne numbei	•
			Witness		d Party					
			Witness Witness		d Party d Party					
AMACE										
AMAGE quipment Damaged:							Cost:			
escription:										
AUSAL ANALYSIS (AREAS BI	EI OW WHICH	WERE THE CA	LISE OF THE							
CIDENT)	LOW WINCH	WERE THE CA								
Job Planning	_	Standards		iics/h	uman engi	ineerir		rsonal Fact		
Work Procedures Communications		e Equipment ing/Design	Tools	ant Di	ifficulty/D	ofactis		w Work St	andards	
Supervision [Conditions			vledge/Tra		с 🗀 оп	ici		
escription of causes:										
ROGRAM OPPORTUNITIES FO		MENT								
Project Mgmt. Roles & Ro		☐ Inspection		[Waste I				ency Plann	
Safety performance/discContractor Safety Mgmt.		☐ Public Sa☐ Driving S			☐ Waste ©		ication		Standards ive Equipn	
Commercial Vehicle Con		☐ HSE Cor	npliance	l i	TDG		[Orienta		iciti
Supervisor Roles & Resp		☐ Fitness F	or Work		Other					
escription of Program Def	iciencies:									
DECIEIO ACTIONO TO TO	CADDIED	OUT								
		OUT	RV	WHO	OM.		DATED	UE	DAT	F.COMP
		OUT	ВУ	WHO	OM		DATE D	UE	DAT	E COMP.
		OUT	BY	WHO	OM		DATE D	UE	DAT	E COMP.
		OUT	ВУ	WHO	OM .		DATE D	UE	DAT	Е СОМР.
		OUT	ВУ	WHO	DM		DATED	OUE	DAT	Е СОМР.
CTION / WORK TO CONT		OUT	ВУ	WHO	DM	Date		UE	DAT	Е СОМР.
PECIFIC ACTIONS TO BE CTION / WORK TO CONT		OUT Safe		WHO	DM	Date			DAT	
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11.3.2 ENVIRONMENTAL INCIDENT REPORT FORM

Project Name	VC #
Date of Incident	Foreman's Name
Company responsible for the spill if other than Val	lard Construction:
Address	Phone Number
Contact Name	
Location of spill on project	
Total quantity involved	
Time incident started	Stopped
What caused the spill/release	
What areas were affected by the spill/release? _	
What measures were taken to control spill/release	?
Identify corrective measures taken (i.e. clean-up, p	packaging, transfer)
What authorities were notified?	
Recommendation to prevent recurrence of incider	nt
Valard Construction – Supervisor's <u>Sig</u> nature:	Date:
Reviewed by: Management /Representative	HS&E



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11.3.3 – STATEMENT FORM

Completed By:Statement of	Date completed: Incident date	
Address		
Telephone		
Describe in as much detail as possib		
		_
		_
		_
		_
		_
		_
		_ _
		<u> </u>
The foregoing statement, which I have	/e given to: h	as
been read over by myself. I understate that it correctly records the information	and the contents of this statement, and I declare on given by myself.	
Signature	 Date	



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SECTION 7 - ENVIRONMENTAL

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- 7.1 Environmental Emergency Response Plan
- 7.2 Right Of Way Construction Guidelines
- 7.3 Reporting of Spills
- 7.4 Contaminant Release Flow Chart

Environmental Spill Report Form (See Section 11)



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7.1 ENVIRONMENTAL EMERGENCY RESPONSE PLAN

Preventing the Release of Contaminants

The prevention of the release of contaminants is achieved through the following means:

- 1. Compliance with all government legislation.
- 2. Safety and Environmental Hazard Awareness Training.
- 3. Preventative maintenance.
- 4. Emergency response training.
- 5. ECO to be prepared prior to work commencing.

The release of a contaminant may happen as a result of equipment malfunctions and human error. In the event of a release of a contaminant, Valard Construction will respond by:

- 1. Ensuring the safety and health of its employees, subcontractors and the public.
- 2. Mobilizing the necessary crews and equipment to contain and clean up the contaminant to protect the environment.
- 3. Report the release of the contaminant to the appropriate government agencies immediately.
- 4. Complete Environmental Incident Report Form # 11.3.4 (See Section 11)
- 5. List of numbers for all provinces are listed in 7.3 of this section

Contaminant Release Types

Contaminant releases can be categorized as Major, Serious and Minor.

1. Major incidents:

- a) An emergency presents an immediate threat to life, or an immediate hazard to property and/or to the environment.
- b) An uncontrolled release, vehicle collision, line, valve or tank rupture with an extensive release of hazardous materials occurs e.g. uncontrolled leakage from the rupture of a gasoline storage tank.
- c) Requires the involvement of an Emergency Team trained in spill contaminant and clean up.
- d) May extend beyond the site property, including materials released in or adjacent to watercourses.
- e) Are immediately reportable under legislation.

2. Serious incidents:

- a) Present a safety, property and/or an environmental hazard.
- b) Are controllable, but involve a high rate of release with the possibility of affecting a wide area. This includes small leaks of very hazardous materials, and may include materials released in or adjacent to water courses.
- c) Requires assistance from personnel outside of the company. i.e. environmental personnel.



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d) May have a potential to extend beyond the company site/property.

3. Minor incidents:

- a) Present minimal potential to safety, property damage or environmental hazard.
- b) Are localized and controllable.
- c) Can be contained and cleaned up immediately by personnel first on the scene or with minor assistance.

Approaching a Contaminant Release

Some basic safety tips when approaching a hazardous incident.

- 1. Try to identify the product from a distance and determine the hazards.
- 2. Do not approach from downwind.
- 3. Avoid inhalation of gases, fumes and smoke.
- 4. Remember that relatively light gases, when cold, may be initially heavier than air.
- 5. Do not assume that gases and vapours are harmless because they lack odour or the odour is not offensive.

Initial Contaminant Assessment

- 1. Determine the severity of the release (Major, Serious or Minor) using contaminant release flow chart (see next page).
- 2. Determine the type (material) of release and the level of severity/potential impact.
- 3. Determine the proper protective equipment from the Material Safety Data Sheet (MSDS).

7.2 Right of Way Construction Guidelines

Construction traffic shall be restricted to the right-of-way and approved extra workspace only. If possible, traffic shall be confined to a single trail along the right-of-way. Construction vehicles and equipment shall be operated at speeds safe for existing roads and traffic conditions.

Valard shall ensure that access through sensitive areas (i.e., critical wildlife habitat, erodible soils, recreational sites, historical sites, etc.) is pre-planned in advance of construction initiation. The number of vehicles and trips in these areas shall be minimized to reduce or eliminate potential environmental impacts. Material and equipment purchased must be evaluated on its impact on the environment. This impact must be reviewed prior to any purchases being processed. This includes such items as light bulbs, water use equipment, fuel burning devices and any work activities that may impact the environment and green house gases.

All surface disturbances shall be kept to a minimum. Every effort shall be made to preserve topsoil, and prevent topsoil/subsoil mixing and compaction, loss of organic matter, and rutting. During the onset of a winter thaw, wet weather, and other saturated soil conditions, the Field Representative shall have the authority to suspend equipment travel on the right-of-way to reduce or eliminate impacts. Equipment travel shall resume only after soils are sufficiently dry or frozen.



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Vehicle travel in areas susceptible to poor ground frost conditions or general unstable soil shall be closely monitored. Re-routes may be necessary to avoid low frost areas or employ alternate construction procedures such as swamp mats, log corduroy, rip-rap, or filter fabric. Approval of all re-routes shall be obtained from Valard Construction. All seasonal road bans shall be respected when and where applicable. Vehicles are not to be left idling unless required for a work activity. Workers will be transported to worksites in vehicles that accommodate more than 4 workers to minimize equipment used and lessen the impact on green house gases. This will also require that equipment purchased is evaluated for fuel efficiency.

When material is ordered for work on site, every effort must be made to order only the material required to perform the task and to minimize the amount of waste that is to be removed from site. Examples would be ordering the exact quantity of concrete for footing; only order the exact amount required and not extra "just in case" This prevents any addition trucking that may be required to remove any waste from the worksite.

7.3 REPORTING OF SPILLS

The following numbers are for reporting Environmental spills and are only accessible in the applicable province.

Alberta: 1-800-222-6514 **British Columbia** 1-800-663-3456 Saskatchewan 1-800-667-7525 Manitoba 1-204-994-4888 Ontario 1-800-268-6060 Yukon 1-867-667-7244 NWT/Nunavut 1-867-920-8130 Newfoundland 1-800-563-9089

IN ALBERTA REPORTABLE RELEASES INCLUDE: (IN ALBERTA)

- All oils > 5 Litres
- Gas, diesel & glycol > 50 litres
- PCBs > 50 ppm
- SF_6 or $CF_4 > 0.5$ kg
- Refrigerant > 10kg (ozone depleting substance)
- Releases entering or near entering waterways
- Releases that MAY cause adverse effect

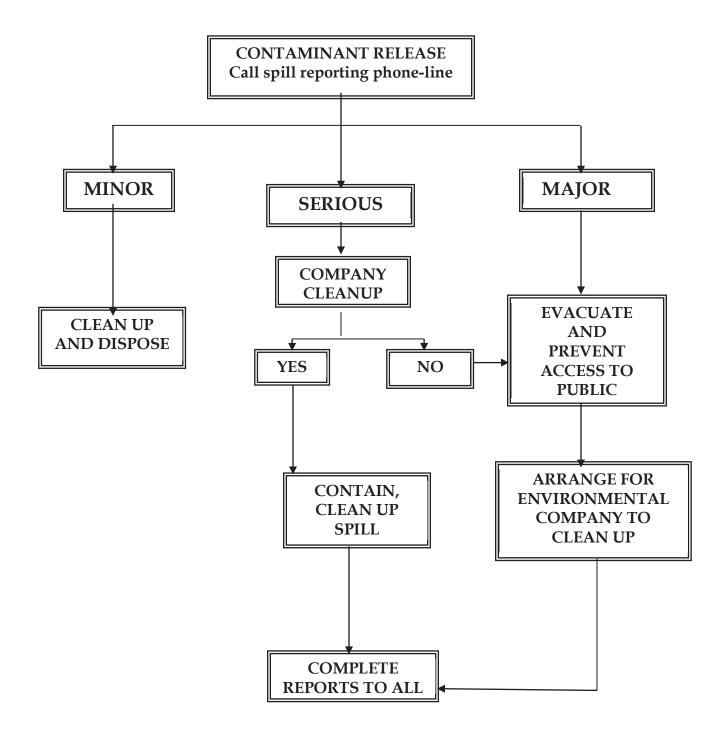
WHEN REPORTING YOU WILL BE ASKED TO PROVIDE:

- The location and time of the release
- A description of the circumstances leading to the release
- The type and quantity of substance released
- The details of any action proposed or taken at the release site
- · A description of the immediate surrounding area

Evacuate all persons to a safe distance!!!



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Document Number: VCLP-02-7000-0-00	Revision No	umber:	Last Reviewe	ed:	
Project Quality Plan:		Originato	or:	Approved:	

Valard Construction Ltd. Quality Program Project Quality Plan

Transmission

Document Number: VCLP-02-7000-0-00 Revision 1

Originated:			
	Project Manager	Date	Signature
Reviewed:			
		Date	Signature
Reviewed:			
		Date	Signature
Approved:			
		Date	Signature

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Project Quality Plan:		Originato	or:	Approved:		

Revisions

No.	Date	Originator	Originating Document	Change	Approved



Quality Program

Document Number: VCLP-02-7000-0-00

Revision Number:

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Project Quality Plan:

Originator:

Approved:

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Definitions

The following definitions shall be used in the interpretation of this manual and all referenced subdocuments:

- **Client** Any entity with which Valard Construction Ltd. holds a contract for the provision of products and/or services.
- Constructed Works The structures, devices and/or installations specified for construction in the scope of a Contract.
- **Contract** Governing agreement between the Client and Valard Construction Ltd. for the provision of services associated with a Project.
- **Directive** Instruction to responsible parties.
- **Distribution Register** Register maintained by the Quality Program Documents Administrator listing all recipients of controlled copies of the Quality Manual.
- Document See 'Quality Program Document'.
- **Engineer** To be interpreted as per the definition provided by the Engineering Professional Association in the jurisdiction where a product or service is provided, completed, purchased, negotiated or constructed.
- **Engineering Services** Any services governed by an Engineering Professional Association in the jurisdiction where a product or service is provided, completed, purchased, negotiated or constructed.
- Engineering Consultant Individual or entity subcontracted to provide Engineering Services to Valard Construction Ltd.
- Form Quality Program Document provided for the purpose of gathering data.
- Hold Point Juncture in a work Process at which work must not be continued until the specified inspections and/or signoffs are completed.
- **ITP** Inspection and Test Plan
- Operational Controls Documentation and devices employed in the assurance of Quality at the construction stage of a Project.
- Originator Individual assigned the responsibility of establishing a Quality Program Document.
- Owner Individual assigned the responsibility of revising a Quality Program Document.
- **Procedure** Quality Program Document consisting of a verbal narrative of the manner in which a task is to be completed.
- **Program** See 'Quality Program'.

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- Project Any undertaking of Valard Construction Ltd. under a Contract with a Client.
- **Project Engineer** The individual or entity charged with the provision of Engineering Services.
- **Project Quality Plan** Quality plan enacted to ensure the quality of products and services associated with a single contract or portion thereof.
- **Quality** All features of a product or service that is required by the Client.
- Quality Manual Refers to this manual.
- Quality Plan See 'Project Quality Plan'
- **Quality Program** Refers to the documentation procedure governed by this Quality Manual and any documents referred to hereby.
- Quality Program Document Any document, inclusive of the Quality Manual, that is listed in the Document Register maintained by the Quality Program Documents Administrator.
- **Quality Record** The sum total of all documentation collected in the completion of a Project Quality Plan.
- Register Quality Program Document summarizing information that is vital to the implementation of the Quality Program and/or a Project Quality Plan.
- Role Position or title specified in a Quality Program Document.
- **Supervisor** Describes any individual engaged in the supervision of work and / or any individual listed in the Supervisory Qualification Registry.
- **VCL** Valard Construction Ltd.

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0 Introduction

0.1 Goals of the Project Quality Plan

The stated goal of this Project Quality Plan is to establish a framework for the control and assurance of the Quality of (a) work completed by the Subcontractor, (b) materials supplied by Valard Construction, and (c) materials supplied by the client. This Preliminary Project Quality Plan is preliminary and has been composed for the purpose of proposing an implementation strategy for the Subcontractor's responsibilities on The 240 kV Transmission Line; this strategy has also been composed for the purpose of identifying the subcontractor's ability to conform to clients's Inspection and Testing Plan. The client is invited to review this PQP for the purpose of identifying any discrepancies or inconsistencies, following which the PQP will be revised to better reflect the requirements of the Contract.

0.2 Form of Project Quality Plan

This document is divided into four primary sections:

- Management & Administration: In addition to providing an overview of the proposed project management structure, this section will summarize the role assignments and assumed responsibilities associated with each role.
- 2) Records: This section will overview the manner in which records will be gathered, preserved, and distributed over the course of project completion.
- 3) Materials: This section will summarize all materials to be supplied by the by the Prime Contractor and/or the Subcontractor under the terms of the Contract; it will also specify the proposed methods of Quality Control associated with each material category.
- 4) General Work Activities: This section will examine Quality Control over broad topics affecting several or all work activities (i.e. supervision, certifications, etc.)
- 5) Specific Work Activities: This section will specifically address the work activities for The 240 kV Transmission Line

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1 Management & Administration

1.1 Project Management Structure

The general form of the Project management structure (as it pertains to Quality) is illustrated below:

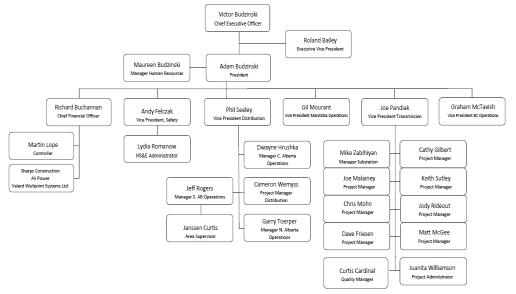


Fig. 01 Project Management Structure Diagram

The primary observable features of this structure are as follows:

- The Quality Manager answers directly to the President.
- Quality Coordinators report to the Quality Manager.
- Trade Supervisors and Project Coordinators are monitored by Quality Coordinators on behalf of the Quality Manager.

1.2 Role Assignments

The following chart will be completed to summarize some of the key personnel to be employed in the completion of the Project. Only personnel having responsibilities specified in the PQP are to be listed. The names of those personnel having key managerial roles are presently listed for the purpose of proposal.

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The role assignments chart will continue to be updated as personnel are added to and/or removed from the Project.

Role	Name	E-mail	Phone	Initial	QM Initial
Project					
Manager					
Quality					
Manager					
Lead Quality					
Coordinator					
Quality					
Coordinator					
	(Several				
Supervisor	Assigned)				

Qualifications 1.3

All personnel employed in the administration of the Project Quality Plan shall possess the necessary skills and be qualified for the completion of their assigned responsibilities.

Responsibilities 1.4

It should be observed that the following responsibility summaries are not exhaustive, and describe the responsibilities associated with the roles in question only as they relate to the Project Quality Plan.

1.4.1 **Responsibilities of the President**

The responsibilities of the President as they relate to Quality are as described under heading 1.2.1 of the Quality Manual.

1.4.2 Responsibilities of the Project Manager

The responsibilities of the Project Manager are as follows:

- To ensure that supervisors and trade foremen are of adequate training and/or experience to complete the production-related tasks assigned to them
- To enforce the authority of the Quality Manager and appointed project Quality Coordinators
- To address the concerns of the client with respect to Quality issues
- To ensure that supervisors and trade foremen are completing their responsibilities in accordance with the Project Quality Plan

1.4.3 Responsibilities of the Quality Manager

The responsibilities of the Quality Manager as they relate to Quality are as described under heading 1.2.2 of the Quality Manual.

1.4.4 Responsibilities – Project Coordinators

The responsibilities of Project Coordinators with regard to a given Project Quality Plan are as follows:

- Project Coordinators shall accept the delegation of any of the Project Manager's responsibilities at the written request of the Project Manager.
- Project Coordinators shall work with subcontractor personnel at the planning stage to ensure they are informed of any and all Quality requirements of the Project as they relate to the subcontractor's work.
- Project Coordinators shall enforce the authority of the Quality Coordinator with respect to the administration of the Project Quality Plan

1.4.5 Responsibilities – Quality Coordinators

The responsibilities of Quality Coordinators are as follows:

- The Quality Coordinator shall prepare the Project Quality Plan in accordance with the Quality Manual.
- The Quality Coordinator shall interface with the Project Manager to collect any required information for the completion of the Quality Plan.
- The Quality Coordinator shall interface with trade supervisors and foremen to collect any required information for the completion of the Quality Plan.
- The Quality Coordinator shall interface with subcontractor trade supervisors and foremen to collect any required information for the completion of the Quality Plan.
- The Quality Coordinator shall be responsible for review of the Quality Plan to ensure that all items listed in the 'Controls' columns of the Quality Plan components listed under heading 3.1 are further referenced in the plan narrative. In the event that these items are not referenced in the narrative, the Quality Coordinator shall request a review of the Quality Manual and Project Quality Plan template to satisfy the requirements of the Project.
- The Quality Coordinator shall submit the Project Quality Plan to the Client in accordance with the requirements of the Contract, or in accordance with any further agreements made with the Client.
- The Quality Coordinator shall collect all required documentation associated with the purchase of materials and products for the Project from employees charged with receiving such materials and products; this work is completed for inclusion in the Quality Record.
- The Quality Coordinator shall collect inspection forms and reports generated at the time of installation from foremen and trades people for the purpose of inclusion in the completed Quality Record.
- The Quality Coordinator shall compile all relevant Quality documentation for inclusion in the completed Quality Record.
- At project kick-off, the Quality Coordinator shall be responsible for explaining the Quality-related responsibilities of all trade-level employees and subcontractors (Supervisors, Foremen, Trades people, and Labourers) – as well as specifying his/her own role – to the project Foremen and Supervisors.

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The Quality Coordinator shall perform periodic audits for the purpose of confirming that all personnel are completing their work in accordance with the PQP.

1.4.6 Responsibilities – Engineering Manager

(Omitted)

1.4.7 Responsibilities – Design Lead

(Omitted)

1.4.8 Responsibilities – Design Engineers

(Omitted)

1.4.9 Responsibilities – Supervisors

The responsibilities assigned to Supervisors follows are as (responsibilities are common for both employed and subcontract supervisors):

- The Supervisor shall ensure that all trade-level employees are in possession of sufficient training and experience to complete their assigned tasks.
- The Supervisor shall enforce the authority of the Quality Coordinator as it relates to the direction of the completion and collection of Quality-related documents.
- The Supervisor shall ensure that trades people are supplied with those resources required to complete their work in accordance with the design requirements of the project, as well those required to observe and collect data pertaining to the Quality of the works constructed.

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1.4.10 Responsibilities – Foremen

The responsibilities assigned to foremen are as follows:

- The Foreman shall supervise the completion of work to ensure that it is completed in accordance with the requirements of the Project design drawings.
- The Foreman shall ensure that works constructed are built only in observance of drawings marked 'Issued for Construction.'
- The Foreman shall ensure that records of works installed are completed by those individuals completing the work, and that such records are completed at the time of installation or assembly.
- Where required by Installation Records, the Foreman shall perform a secondary inspection of works completed and sign for such inspection.
- The Foreman shall direct trades people and labourers working under their supervision as to their Quality-related responsibilities in accordance with this document.

1.4.11 Responsibilities – Trades people (Not specified in management structure)

Trades people shall complete all Quality Records specified by the Project Quality Plan and associated with their work at the time of installation, assembly, or testing, as the case in particular requires.

1.4.12 Responsibilities - Labourers (Not specified in management structure)

Labourers shall complete all Quality Records specified by the Project Quality Plan and associated with their work at the time of installation, assembly, or testing, as the case in particular requires.

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2 Quality Record

'Quality Record' refers to the complete body of Quality-related documentation collected over the course of project completion. This section provides a narrative of the manner in which the constituent documents will be collected, preserved and distributed.

2.1 Valard Construction's Inspection and Test Plan

Valard Construction will generate a complete Inspection and Test Plan (ITP). The Quality Record consists essentially of the body of documentation described in the ITP.

Regarding all forms associated with the Quality Record and/or the ITP, Valard proposes, the following measures should be taken to expedite the collection, and distribution of Quality related documentation:

- All forms should be revised to ensure that they can be presented in their entirety on a single page (can be accomplished through the use of smaller fonts and/or legal-sized documents).
- All forms should be printed and made available in triplicate carbon paper form; alternately, Valard Construction will make electronic copies of the Forms specified in the ITP available for the purpose of its advance preparation of site-specific Quality Forms.

All ITP's shall be submitted for acceptance by the client and if required by the client, prior to any work commencing. ITP's shall be submitted at least 7 (seven) days prior to the proposed work commencement date, to allow for review and input from all parties.

2.2 Reporting Summary

Valard will generate a Reporting Summary consisting of a complete list of all completed and/or partially completed forms to be submitted to the Prime Contractor over the course of the Project. These forms shall be available, at all times, for review by the Prime Contractor's Quality assurance staff. Explicitly, this Summary shall consist of the following:

- A summary of all Quality Related Forms to be collected in relation to material receiving and inspection;
- A summary of all Quality Related Forms to be collected for each individual structure (inclusive of foundation) to be installed in awarded sections

In addition, the summary of structure-related Quality forms will also account for and reference secondary Quality forms such as concrete delivery tickets, third party concrete strength testing reports, laboratory sieve test results, and any other documentation.

 A summary of all Quality Forms relating to conductor and hardware installation.

2.2.1 Subcontractor Generated Quality Forms

In all cases, where the PQP specifies a Form, the Forms shall be generated in accordance with the requirements of the PQP. Each type of Form will be assigned a document number, in addition to a system of serial numbers whereby the Forms can be traced.

Subcontractor Quality Forms may be generated for the internal purposes of the Subcontractor with respect to Quality or may be generated for the purpose of satisfying elements of the specification that relate to Quality.

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2.2.2 The Quality Record

'Quality Record' describes the complete set of Quality-related documentation that will be:

- 1. Assembled by the Subcontractor for the purpose of satisfying its internal requirements with respect to Quality.
- 2. Submitted to the Prime Contractor for the purpose of documenting the Quality of works constructed in association with the Contract.

The Reporting Summary represents a table of contents for the Quality Record. The expectation is that at Project completion, all Forms outlined in the Reporting Summary will be present in the Quality Record.

In addition to those elements specified in the reporting summary, the Quality Record will include documentation of other elements of the Quality Program (i.e. Nonconformity Reports, Audit Documentation Forms, etc.); these elements are referenced throughout the PQP, and will be compiled at the time of generation of the Reporting Summary.

2.2.3 Completeness of Record

The completed Reporting Summary shall form a benchmark for the performance of the Subcontractor with respect to Quality over the course of the Project. A complete Quality Record corresponding exactly to the Reporting Summary (along with any amendments thereto made over the course of the Project) shall be deemed to accurately represent the Quality of all works constructed by the Subcontractor.

2.3 Procedures for the Completion of Quality Documentation

This section shall establish procedures for the completion of each type of Quality Form listed in Valard's ITP, in addition to Quality Documentation deemed to be necessary by the Subcontractor and completed in addition to the requirements of the ITP. These procedures consist of a crossfunctional procedural flowchart for each Quality form, along with a short narrative. The Procedures are divided into the same groups of forms described under Section 2.2 of this document.

It should be noted that for all forms - where the form has been completed and indicated for inclusion in the Quality Record - it is the

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Subcontractor's preference that it first be submitted Subcontractor's Project office for the purpose of copying and filing prior to submission to the Prime Contractor.

2.3.1 Forms Pertaining to Material Receiving and Inspection

In general the following will apply for Quality forms pertaining to material receiving and inspection:

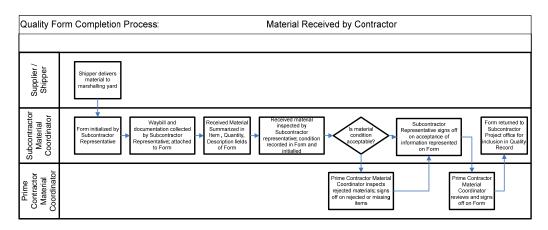
- 1. Quality forms pertaining to borrow pits and earthworks materials will be initialized by the Project Manager and/or Project Coordinators at Project startup or as required over the course of the project. Borrow pit documentation will be preserved in the Project office and associated with the geographic location of the pit for the purpose of efficient access to earthworks materials.
- 2. Quality Forms pertaining to purchased materials and products will be initialized by the Subcontractor Materials Coordinator at the time of receiving.
- 3. In all places where a Form indicates that a Subcontractor representative will notify the Prime Contractor of its intention to begin work on the right-of-way or at a structure location, it is implicit that such notice will be accomplished via the Subcontractor's schedule updates and daily verbal amendments thereto. In general, it is expected that the Prime Contractor's representatives will be working closely with the Subcontractor's Supervisors and construction Foremen, and as such will be familiar with its construction schedule. With the exception of direct requirements thereof found in the Contract, written notice specifying the completion or inspection of work at a particular location will not be provided. Submission of schedule updates on a regular basis will be deemed to be acceptable notice of the imminence of construction activities at any given location.

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2.3.1.1 Materials Received by Contractor

The following diagram illustrates the flow of information related to the completion of Materials Received by Contractor form:

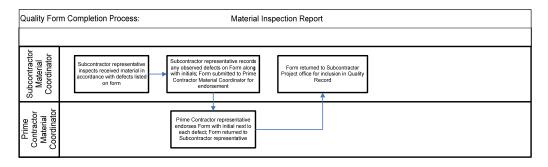


Process notes:

- Documentation collected by Sub-contractor's representative will include: mill test reports and bills of lading.
- In the event that the received condition of material is unacceptable, details of the reason for rejection of the material will be recorded in the available space on the form.
- Where the material or quantity thereof is inconsistent with the waybill, this condition will trigger the generation of a Vendor Shortage List.
- Process notes shall include welding examination and inspections for all welding completed by any supplier.
- All materials received from any supplier must be accompanied by welding reports and welding inspections substantiated quality of materials and workmanship.

2.3.1.2 Materials Inspection Report

The following diagram illustrates the flow of information related to the completion of Materials Inspection form:

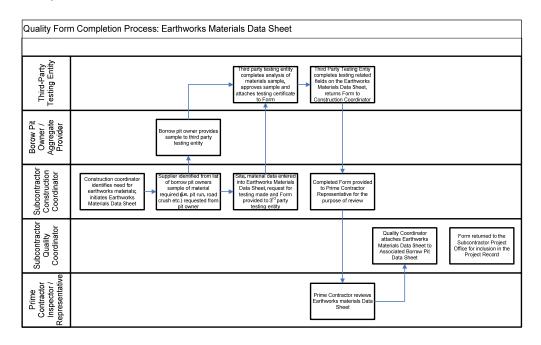


Process notes:

- Documentation collected by Subcontractor representative will include all defects, not just limited to defects specified on the Form.
- Sign established at pit will feature the following information:
 - Subcontractor name and logo
 - Contract tag and number
 - Borrow Pit Data Sheet document number
- Ultimately, as various materials are identified and approved at the borrow pit site, the associated Earthworks Materials Data Sheets will be attached to the Borrow Pit Data Sheet and made available in the Project Office.

2.3.1.3 Earthworks Material Data Sheet

The following diagram illustrates the flow of information related to the completion of the Earthworks Material Data Sheet:

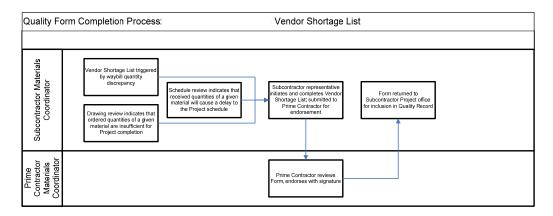


Process notes:

 As specified above, Earthworks Material Data Sheets will be attached to their respective Borrow Pit Data sheet, ultimately creating a record both of a site, as well as the properties of materials available at that site.

2.3.1.4 Vendor Shortage List

The following diagram illustrates the flow of information related to the completion of Vendor Shortage form:

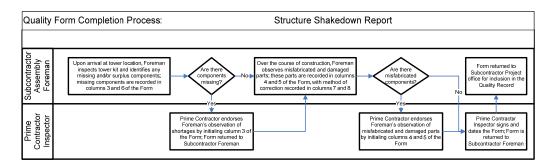


Process notes:

 Process assumes availability of Prime Contractor Representative for inspection of material and acceptance of Vendor Shortage Lists.

2.3.1.5 Structure Shakedown Report

The following diagram illustrates the flow of information related to the completion of Structure Shakedown form:



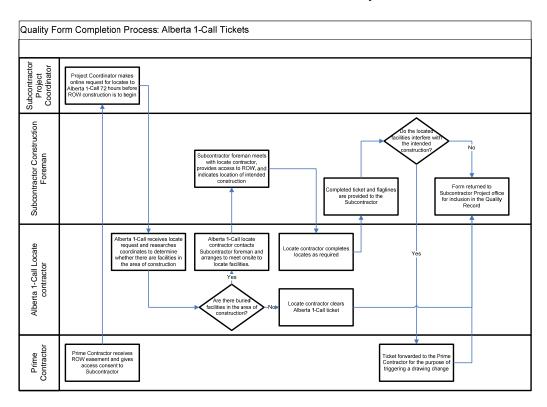
Process notes:

- Dependent upon the nature of the tower kit packaging, it may be beneficial to complete the initial survey for missing parts at the marshalling yard prior to delivery of the kit to the tower site.
- Observations of mis-fabrications are by necessity carried out over the course of construction; this is a result of the fact that many defects will be difficult or impossible to observe without actually attempting to assemble the tower.

2.3.2 Forms Pertaining to Structure Erection (Foundations)

2.3.2.1 Alberta 1-Call Tickets

Although the 1-Call Ticket is not a required element of the Prime Contractor's ITP, it will be included with the Quality Record.



Process notes:

 In the event that it has been determined that located facilities interfere with the installation of a tower foundation, construction

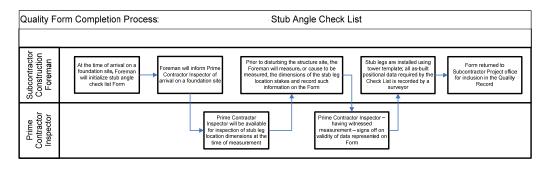
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at the tower site will be suspended pending a drawing change from the Prime Contractor.

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2.3.2.2 Stub Angle Checklist

The following diagram illustrates the flow of information related to the completion of Stub Angle Checklist form:

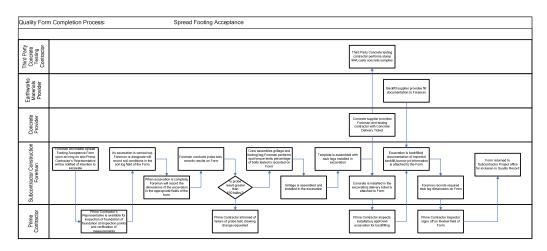


Process notes:

(None)

2.3.2.3 Spread Footing Acceptance

The following diagram illustrates the flow of information related to the completion of Spread Footing Acceptance form:



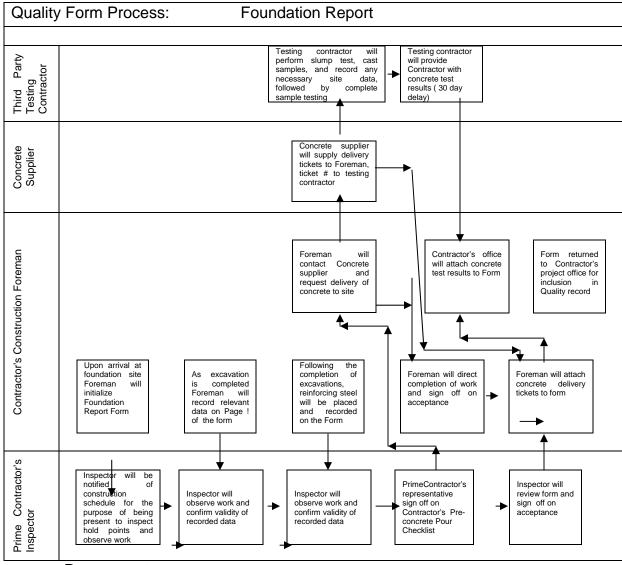
Process notes:

• (None)

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2.3.2.4 Foundation Report for Structure

The following diagram illustrates the flow of information related to the completion of Foundation Report for Structure form:



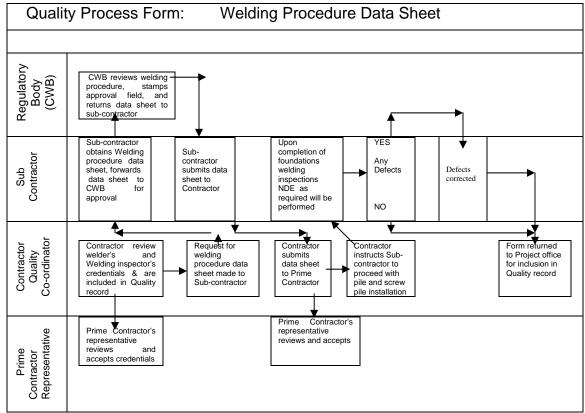
Process notes:

None

2.3.2.5 Welding Procedure Data Sheet

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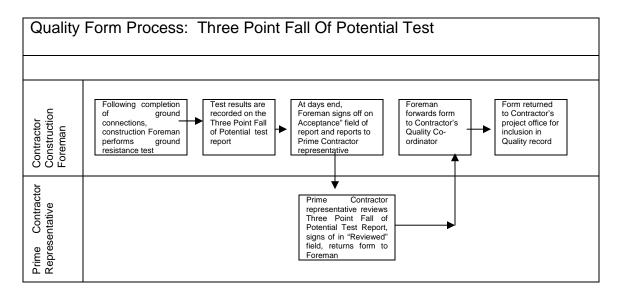
The following diagram illustrates the flow of information related to the completion of the Welding Procedure Data Sheet:



Process notes:

 Following completion of the Welding Procedure Data Sheet, it will be made readily available in the Project office

2.3.2.6 Three Point Fall of Potential Test Report

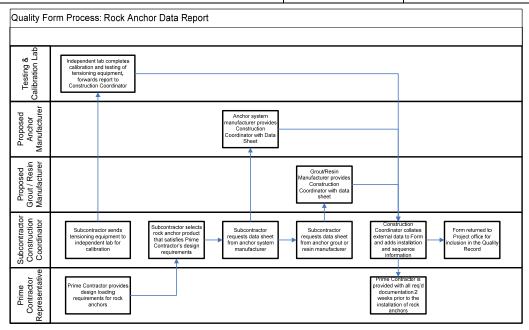


Process notes:

- Forms are to be completed and submitted on a daily basis.
- It is assumed that the Prime Contractor Representative will be available to provide supervision or spot-checks of testing process throughout the day for the purpose of confirming the validity of test results prior to signing the 'Reviewed field of the Form.

2.3.2.7 Rock Anchor Data Report

The following diagram illustrates the flow of information related to the completion of the Rock Anchor Data Report:

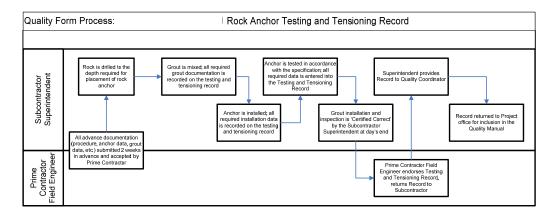


Process notes:

- Data report will consist essentially of a checklist indicating each piece of external documentation to be collected; these are to be collated to the report sheet when they are collected.
- Following submission of Rock Anchor Data Reports, they will be made available in the Project office for reference and/or subsequent Daily Rock Anchor Testing inclusion Tensioning Reports.

2.3.2.8 Subcontractor's Daily Rock Anchor Testing and Tensioning Report

The following diagram illustrates the flow of information related to the completion of Rock Anchor form:



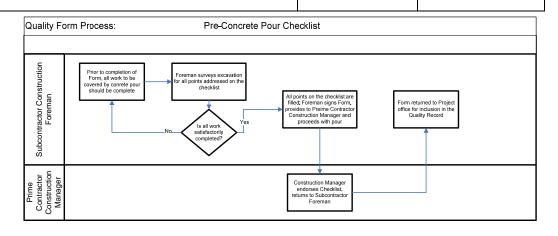
Process notes:

 ITP calls for only for testing of one anchor per day or every tenth anchor. The procedure outlined above applies only to those anchors specified for testing.

2.3.2.9 Pre-Concrete Pour Checklist

The following diagram illustrates the flow of information related to the completion of Pre-Concrete Pour Checklist form:

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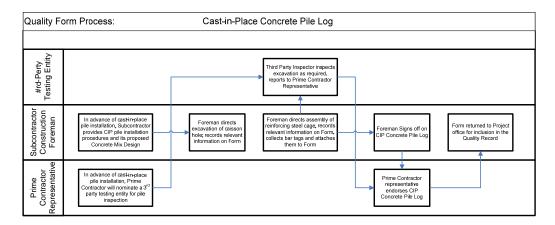


Process notes:

 All checklist points are to be evaluated in accordance with the specification.

2.3.2.10 Cast-in Place Concrete Pile Log

The following diagram illustrates the flow of information related to the completion of Cast-in-Place Concrete Pile form:

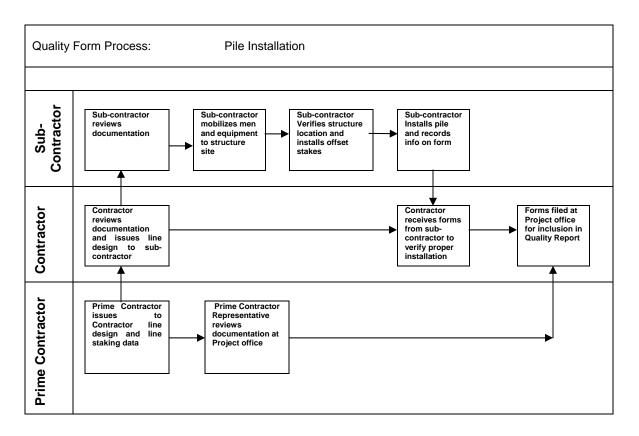


Process notes:

- 'Reinforcing Steel' field should be used to indicate the placement drawing number; bar tags taken from the reinforcing steel at the time of placement should be collected.
- Cast-in-place pile installation procedures will be provided to the Prime Contractor Two weeks in advance of installation of the first pile installed on the Project; this shall be deemed to be acceptable documentation of procedures for the entirety of CIP piles installed on the Project.
- It is expected that the Prime Contractor will nominate a single 3rd party testing entity at Project kick-off, and that this group will be available for efficient inspection of excavations as they come available.

2.3.2.11 Pile Installation

The following diagram illustrates the flow of information related to the completion of Cast-in-Place Concrete Pile form:



Process notes:

none

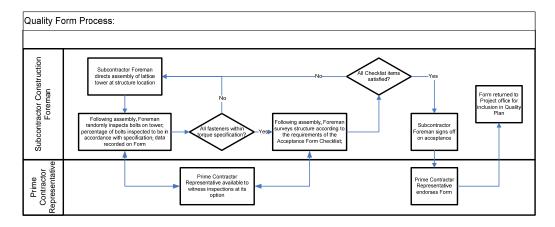
2.3.3 Forms Pertaining to Structure Erection

2.3.3.1 Structure Shake Down Report

 Note: The process associated with Structure Shakedown Report is included under Heading 2.3.1.5.

2.3.3.2 Tower Assembly Acceptance

The following diagram illustrates the flow of information related to the completion of Tower Assembly form:

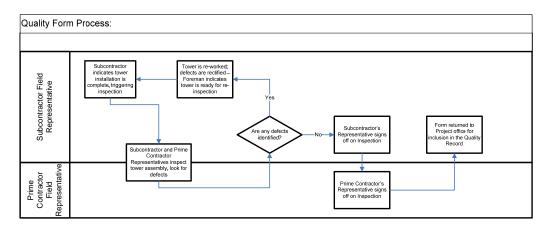


Process notes:

• (None)

2.3.3.3 Structure Assembly and Installation Inspection Report

The following diagram illustrates the flow of information related to the completion of Structure Assembly and Installation Inspection form:



Process notes:

 For the purpose of efficiency, the Subcontractor prefers that inspections should be completed immediately following tower erection.

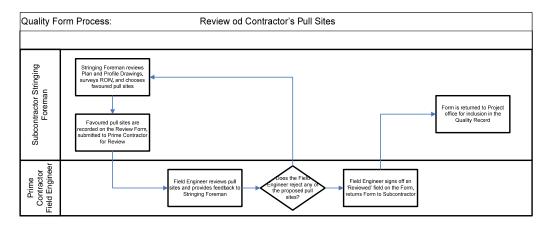
2.3.4 Forms Pertaining to Access and ROW issues

Note that in addition to the Form specified below, general ROW cleanup and conditioning is referenced in Tower Assembly Acceptance Form.

2.3.5 Forms Pertaining to Conductor Installation

2.3.5.1 Review of Contractor's Pull Sites

The following diagram illustrates the flow of information related to the completion of Pull Sites form:

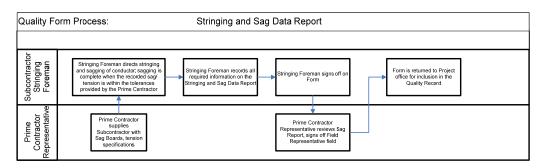


Process notes:

- It is expected that reviews of pull sites may be submitted and reviewed for discrete sections of line; this will be necessary for efficient execution of stringing work.
- Typically, pull sites will be chosen for the suitability of the ground and geography with respect to anchoring, accessibility for heavy stringing equipment, and to minimize wasted conductor.

2.3.5.2 Stringing and Sag Data Report

The following diagram illustrates the flow of information related to the completion of Stringing and Sag Data form:

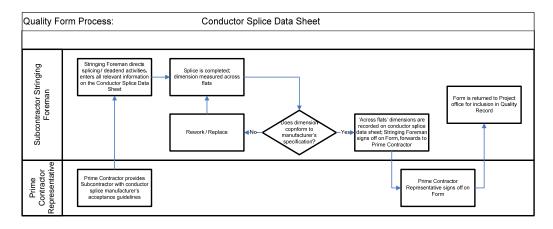


Process notes:

(None)

2.3.5.3 Conductor Splice Data Sheet

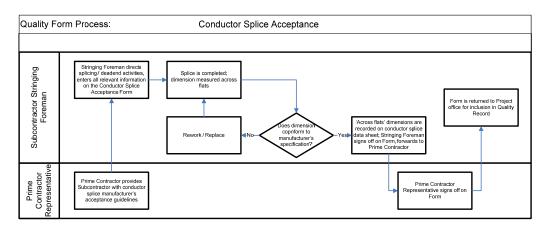
The following diagram illustrates the flow of information related to the completion of form:



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2.3.5.4 Conductor Splice Acceptance

The following diagram illustrates the flow of information related to the completion of Conductor Splice form:

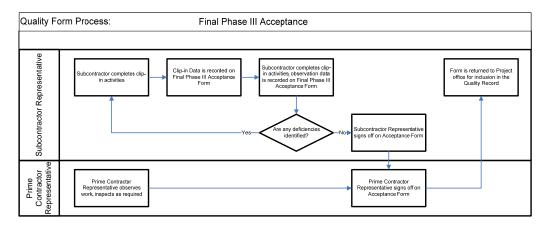


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2.3.5.5 Final Phase III Acceptance

The following diagram illustrates the flow of information related to the completion of form:



Process notes:

• (None)

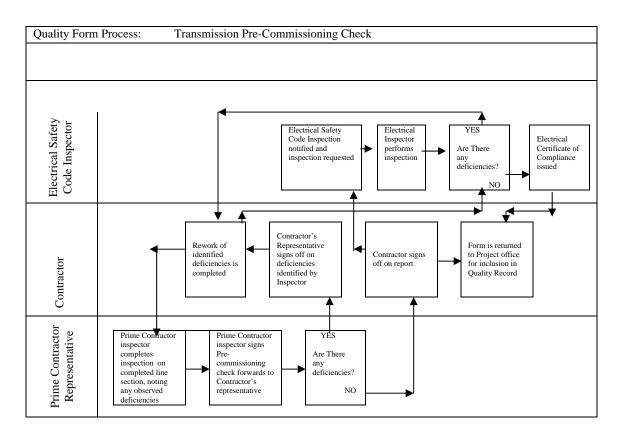
2.3.6 Forms Pertaining to Final Inspection and Commissioning

2.3.6.1 Ground Clearance Report

Note: This Form and the associated inspection will be completed by Valard Construction. These Forms will be submitted to the Prime Contractor for inclusion in the Quality Record.

2.3.6.2 Transmission Pre-Commissioning Check

The following diagram illustrates the flow of information related to the completion of Pre-Commission Check form:



Process notes:

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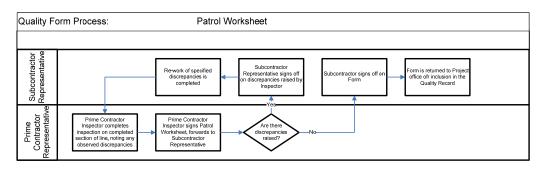
 Subcontractor Representative's acceptance of Inspector's specified discrepancies will be subject to evaluation and inspection of discrepancy.

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2.3.6.3 Patrol Worksheet

The following diagram illustrates the flow of information related to the completion of Patrol Worksheet form:



Process notes:

• (None)

2.4 Collection of Quality Documentation

In all cases the collection of forms and additional documentation will proceed as follows:

- 1. The Form will be initialized by the Foreman, Supervisor, or coordinator directing the work.
- 2. All qualitative Form fields (i.e. checklist-style documentation) will be completed:
 - a. In the field
 - b. At the time of work completion
 - c. By the tradesperson completing or directly supervising the work
- 3. All quantitative Form fields will be completed:
 - a. In the field
 - b. At the time of work completion
 - c. By the Foreman or Supervisor directing the work
 - d. Only by Foreman or Supervisor having personally performed the measurements represented or having directly observed the measuring process.
 - e. Documentation will be presented to the Prime Contractor's representative for review and/or endorsement (as required by the Prime Contractor's ITP) following which it is to be returned to the Foreman or Supervisor responsible for the work.
 - f. The Foreman or Supervisor will submit the Quality Form to the designated Quality Coordinator; the Quality Coordinator will be responsible for control and distribution of Quality Documentation.
 - 4. All documentation shall be maintained by Valard Construction in a proper filing system. The Prime Contractor's Quality Staff shall be granted access to these files for the purpose of review.

2.5 Control of Quality Documentation

The Quality Record shall be collected and maintained in the Subcontractor's Project office. The following process will apply to its control:

- 1. Upon submission of a Quality document, it will be listed as complete in the Reporting Summary.
- 2. The Form will be stored in hardcopy at the Subcontractor's Project office.
- 3. The Form will be scanned and stored electronically on the Subcontractor's remote server.

2.6 Distribution of Quality Documentation

The following process is proposed to satisfy all elements of the Quality Plan:

- e. All original documents shall be maintained by Valard Construction and shall be included in the turn over of documents at project completion.
- g. The form will be copied in triplicate.
- h. One copy of the Form will be entered into the Quality Record.
- One copy of the Form will be forwarded to the Project Manager or a designated coordinator for the purpose of tracking progress.

3 Materials

Quality control with respect to materials is to be administered under two primary headings:

- 1. Materials Supplied by the Prime Contractor
- 2. Materials Supplied by the Subcontractor

3.1 Materials Supplied by the Prime Contractor

With respect to materials supplied by the Prime Contractor, the goals of the PQP are as follows:

- 1. To confirm the quantity and condition of material received from the Prime Contractor's suppliers
- 2. To confirm the conformity of received material to its type design
- 3. To quantitatively record deviations of the lattice tower materials from their type design for the purpose of calculating changes to the Contract

To the end of achieving the above, the following controls are to be implemented:

- 1. Visual Inspections
- 2. Quantity Checks
- 3. Vendor Shortage Reporting
- 4. Nonconforming Material Quarantine

3.1.1 Visual Inspections

Visual inspections will be conducted on all material received by the Subcontractor on behalf of the Prime Contractor at the time of receiving in the marshalling yard.

Visual inspections will be documented and will be subject to review and confirmation by the Prime Contractor's Materials Coordinator.

3.1.2 Quantity Checks

Quantity checks will be documented and will be subject to review and confirmation by the Prime Contractor's Materials Coordinator.

Shortages that become apparent as a result of quantity checks will trigger the generation of a Vendor Shortage List (see following section).

Quantity checks specifically addressing component checks for missing and misfabricated components of the steel lattice tower kits will be documented.

3.1.3 Vendor Shortage Reporting

Vendor shortages will be documented.

3.1.4 Quarantine

Upon taking possession of the respective marshalling yard, the Contractor will identify an area of the yard to be reserved for quarantined parts. This area will be clearly marked and segregated from the remainder of the yard by ropes or tape.

Upon identification of substandard, damaged, or broken parts or components, such components shall be clearly marked with a tag bearing the following information:

- Large bold notice: NONCONFORMING PART
- Discrepancy: Description of the identified problem with the part
- Supplier: Name of supplier
- Date: Date nonconformity was identified
- Initial: Initial of individual taking part out of circulation

Once parts have been deposited in the Quarantine area, tags will not be necessary.

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3.2 Materials Supplied by the Subcontractor

With respect to materials supplied by the Subcontractor, the goals of the PQP are as follows:

- 1. To document the properties of received material for the internal requirements of the Subcontractor.
- 2. To document the properties of received material to assure the Prime Contractor of the Quality of such Material.

While the following Subcontractor-supplied materials are referenced in the ITP, no forms have been provided. As such, the Subcontractor will generate forms for the efficient tracking of these materials (Note: these forms are also referenced under headings 2.2 and 2.3):

- Borrow Pit documentation
- Road Crush
- Pit Run
- Sand
- Native Fill
- Concrete
- Reinforcing Steel
- Rock Anchors
- Grout

The information to be addressed in each of these forms is summarized in the table on the following page.

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The following chart summarizes all Subcontractor supplied materials as specified in the Contract, along with proposed Quality controls:

Subcontractor Supplied Material	Product Controls	Submission Schedule	Comments
Earthwork Materials - Borrow Pits (General)	Borrow pit information to be submitted to Prime Contractor prior to provision of earthwork materials: -Address or coordinates of borrow pits -Summary of methods of excavation, mixing, screening, and transportation -Summary of the rated capacities of equipment used for borrow pit excavation and process -Summary of unusual mixing or excavating procedures -Summary of methods in use to control moisture and drainage -Information on disposition of oversized material -Information on the disposition of unsuitable material from stripping operations	Prior to use of borrow pit	
Road Crush	Information qualifying 'road crush' as conformant to Alberta Transportation Designation 4, Class 20: -Sieve analysis -Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
Pit Run	Information qualifying 'pit run' as conformant to Alberta Transportation Designation 6, Class 80: -Sieve analysis -Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
Sand	Information qualifying sand as conformant to SP-062200-4100-01 7.2.4: -Sieve analysis -Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
Native Fill	-Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
	-Concrete mix design, formulated in accordance with the requirements of the design drawing	2 weeks prior to the commencement of material placement	
Concrete	-Concrete Delivery Tickets conforming to CSA A23.1 Section 5.2.4.5 Information gathered by third-party testing contractor:	Immediately following placement	
	-Slump test results -Air content test results -Ambient temperature at time of delivery -Compressive strength test results	Immediately following availability of results	

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Subcontractor Supplied Material	Product Controls	Submission Schedule	Comments
	Mill test reports		
Reinforcing Steel	Reinforcing Steel Placing Drawings and Bar Lists		
	Bar tags featuring the following information:	Fastened to rebar	
	-Grade of steel	at all times	
	-Mark number (as per bar list)	following delivery and prior to	
	-Rebar placing drawing number	placement.	
	-Purchase order number		
	-Shipping destination Mill test reports Screw		
	Mill test reports	2 weeks prior to	
Screw Welding Inspection Reports	Welding Inspection Reports	the commencement	
Piles	Bill of Lading Literature on chosen rock anchors inclusive of information on bar, centralizers, face plate, washer, and nut Information on the physical and chemical properties for each lot of steel rock	of material placement	
		pidodinoni	
	Information on the physical and chemical properties for each lot of steel rock anchors to be used.		
	Information on the proposed method of sealing fractures and voids in drill holes to prevent loss of grout		
	Certified statement from independent testing laboratory confirming the following properties:		
	-Minimum cross-sectional area of the threaded portion of the bar		
	-Minimum cross-sectional area of the unthreaded portion of the bar	2-weeks prior to	
Rock Anchors	-Yield strength of the bar	the commencement	
Rock Anchors	-Ultimate tensile strength of the bar	of anchor placement	
	-Name of material	piacomoni	
	-Manufacturer		
	-Graph of unconfined compressive strength versus time		
	-Gel time		
	-Viscosity		
	-Shelf life		
	-Storage and handling requirements		
	Published specification showing the following information:		
	-Name of material		
	-Manufacturer	2-weeks prior to the	
Grout	-7 & 28 day unconfined compressive strength	commencement	
	-Composition	of anchor placement	
	-Shelf life		
	-Storage and handling requirements		

3.3 Audits

This section addresses only those audits associated Quality Assurance and Control for material.

3.3.1 General

Field-level audits will be instituted for the purpose of ensuring that Quality Assurance and Control measures are being implemented in accordance with the PQP. It is intended that an audit will be completed in approximately one day.

3.3.2 Procedure

The Subcontractor will compose a complete procedure for the completion of field-level audits. This procedure will implement the following elements:

- 1. Audits will include spot checks on documentation of new material arriving in the marshalling yard.
- 2. Audits will include an inspection of the measures used to identify the 'Quarantine' area of the marshalling yard.
- 3. Audits will include a review of collected borrow pit documentation.
- 4. Audits will include an observation of the received material inspection procedure.
- 5. Audits will include an inspection of reinforcement steel stored at the marshalling yard.
- 6. Audits will include a review of earthworks materials being installed at a structure location, complete with an inspection of the associated documentation.
- 7. The audit procedure will include a Form to be used for the purpose of documentation of the audit (referenced below).

3.3.3 Documentation

The audit documentation form will feature the following; where a field specifies 'notes', the field shall contain both a nonconformities column and a rectification column:

- 1. Information fields identifying:
 - a. Date of audit
 - b. Name of auditor
 - c. Identification of marshalling yard audited
 - d. Identification of Project office audited
- 2. Notes field for incoming material documentation
- 3. Notes field for quarantine area marking scheme
- 4. Notes field for borrow pit documentation.
- 5. Notes field for material receiving documentation
- 6. Notes field for reinforcing steel documentation
- 7. Notes field for installed earthworks material documentation

3.3.4 Frequency

Audits will be conducted on the following schedule (please note that this schedule will apply to:

- One audit will be conducted exactly 1 week following the first receipt of material.
- Following the initial audit, an additional two audits shall be conducted on two week intervals. These (three) audits correspond to the 'setup' period of the Project Quality Plan.
- After the 'setup' period, one audit will be conducted per month, on a random basis.

4 General Work Activities

This section describes Quality Control measures that are broad in application and that apply to multiple work activities.

4.1 Drawings

Under no circumstances will any of the Subcontractor's personnel, for the purpose of constructing or inspecting any element of the work represented in the Contract, consult drawings that are not marked "Issued for Construction".

4.2 Procedures

Where the Contract specifies that the Subcontractor must submit procedures for the work it completes, such documentation shall be collected prior to the start of work subject to the procedure requirement, and made available in the Project office.

Where specified procedure requirements are subject to certification (i.e. welding procedures) such procedures shall form a part of the Quality Record.

4.3 Certifications

Certification of procedures, where specified by the Contract, shall form a part of the Quality Record and be made available in the Project office.

Where Certifications are required as a part of the Quality record for a given work activity, copies of the certification are to be attached to the Quality Form associated with the work activity in question.

4.4 Trade Qualifications

Where the Contract specifies trade qualifications for a certain work activity (i.e. welding), such qualifications shall be documented in advance of the completion of work and be made available in the Project office.

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4.5 Supervisory Qualifications

Several work elements of the Contract specify Supervision by a Qualified Supervisor. In order to document its conformance to the requirements of the Contract, it is the Subcontractors intent to implement a Supervisory Qualification Registry. This registry will be kept in the Project office and updated each time a new Supervisor is introduced or promoted on the Project.

4.5.1 Supervisory Qualification Registry

The Supervisory Qualification Registry shall consist of a chart listing the following information for each of the Subcontractor's Supervisors:

- Supervisor's name
- Check-boxes for each Contract work activity specifying Supervisory Qualifications
- Signature column for Quality Coordinator

The Supervisory Qualification Registry will form an element of the Quality Record.

4.5.2 Documentation

Documentation of any Supervisor's qualifications will be provided at the request of the Prime Contractor in the form of a resume.

4.6 Calibration & Testing of Tools & Instruments

4.6.1 General

Several work elements of the Contract specify Calibration or testing of installation tools and/or measurement instruments. In order to document its conformance to the requirements of the Contract, it is the Subcontractors intent to implement the following Quality Control measures:

- Collection and preservation of Calibration / Testing Records
- Tool Control Registry

4.6.2 Calibration / Testing Records

Prior to its use on the Project, any tool or measuring device specified in the Contract for calibration or testing will be tested (a) by the Subcontractor where its personnel and/or equipment are capable of completing such an inspection or calibration or (b) by an external calibration or testing laboratory.

Following testing or calibration of a tool or instrument, the following will apply:

- The testing or calibration certificate will be submitted to and preserved in the Project office.
 - The testing certificate will feature the instrument's serial number unit number
- A sticker or tag will be affixed to the tool or instrument indicating the date of its last calibration, and the date of its next calibration.
- An automated message will be initiated in Microsoft Outlook by the Quality Coordinator one month before the tool or instrument's next calibration.

Testing and calibration certificates will be preserved in the Project office and will form an element of the Quality Record.

4.6.3 Tool Control Registry

The tool control registry shall consist of a chart featuring the following columns:

- Tool unit number
- Description (2-4 words as required)
- Manufacturer
- Model Number
- Calibration Date
- Date of next calibration

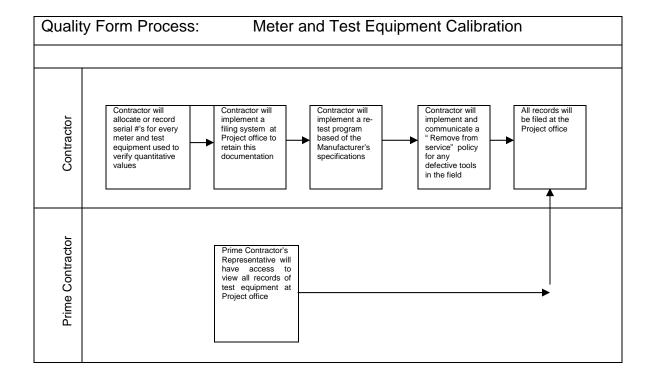
The Tool Control Registry shall form an element of the Quality Record.

4.6.4 Periodicity of Calibration / Inspection

With regard to periodicity, the period between calibrations of a given tool or instrument shall be determined from the following according to the following precedence:

- 1. Prime Contractor's requirements as specified in the Contract
- 2. Legislative requirements
- 3. Manufacturer's recommendations
- 4. 1 year (specified in the absence of any other recommendations)

Notwithstanding the above the shortest period specified by items (1), (2), and (3) shall take absolute precedence.



4.7 Audits (Work Activities)

This section addresses only those audits associated with Quality Assurance and Control for work activities.

4.7.1 General

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Field-level audits will be instituted for the purpose of ensuring that Quality Assurance and Control measures are being implemented in accordance with the PQP. It is intended that an audit will be completed in approximately one day.

4.7.2 Procedure

The Subcontractor will compose a complete procedure for the completion of field-level audits on work activities. This procedure will implement the following elements:

- 1. Audits will include spot checks on documentation for material installed on the site.
- 2. Audits will include supervisory spot checks to ensure (a) that each work activity being completed is supervised by a supervisor listed on the Supervisory Qualification Registry, and (b) that Supervisor is qualified to supervise the work being completed.
- Audits will include spot checks to ensure that any tools or measuring devices being used in the completion of work that are subject to testing or calibration are listed on the Tool Control Registry and further that any such tools carry a valid certificate of calibration or testing.
- 4. Audits will include an inspection of onsite documentation being completed for the purpose of documenting the completion of work and/or the inspection thereof.

- 5. Audits will include a review of the procedures documented in the Quality Record, and spot checks on affected activities to ensure that these activities are being completed in accordance with the governing procedure.
- 6. Audits will include a review for the purpose of identifying any related Quality issues, and reviewing the Project Quality Plan to ensure that it conforms to the requirements of the Contract.
- 7. The audit procedure will include a Form to be used for the purpose of documentation of the audit (referenced below).
- 8. The audit procedure will include reference to the identification of root causes and the correction thereof.

4.7.3 Documentation

The audit documentation form will feature the following; where a field specifies 'notes', the field shall contain both a nonconformities column and a rectification column:

- 1. Information fields identifying:
 - a. Date of audit
 - b. Name of auditor
 - c. Identification of marshalling yard audited
 - d. Identification of Project office audited
- 2. Notes field for installed material documentation
- 3. Notes field for supervisory qualification documentation
- 4. Notes field for tool and instrument and documentation
- 5. Notes field for work records documentation
- 6. Notes field for procedures documentation
- 7. Notes field for Contract conformity

4.7.4 Frequency

Audits will be conducted on the following schedule:

- One audit will be conducted exactly 1 week following the first completion of onsite work.
- Following the initial audit, an additional two audits shall be conducted on two week intervals. These (three) audits correspond to the 'setup' period of the Project Quality Plan.
- After the 'setup' period, one audit will be conducted per month, on a random basis.

- If a deficiency is identified, a formal notification report will be issued to the sub-contractor informing them of:
 - 1. The nature of the deficiency
 - 2. Potential severity or impact of deficiency
 - 3. Timeframe to Address Deficiency
 - Minor- 14 working days
 - Moderate- 7 working days
 - Major- 2 working days

4.8 Nonconformities

Nonconformity refers to an identified condition where a material or its associated documentation does not conform to the measures and procedures specified in the Project Quality Plan.

4.8.1 Stop Work Authority

Where a systematic nonconformity has been identified, the Quality Manager is empowered to halt any associated work until such time as he is satisfied with regard to the fact that the systematic nonconformity has been addressed or eliminated.

4.8.2 Nonconformity Reporting

'Nonconformity Reporting' as described in this section refers to the identification and tracking of material and construction nonconformities under conditions that are not explicitly addressed by the ITP.

The Contractor shall employ a nonconformity reporting Form for the purpose of logging nonconformities. Nonconformity Reports can be triggered on authority of coordinators in all management groups, construction Foremen and Supervisors, the Project Manager, or the Quality Manager. The following situations will trigger a Nonconformity Report:

- 1. Nonconformity is identified in the course of an audit.
- Nonconformity is observed by the material manager or a subordinate in the course of material distribution

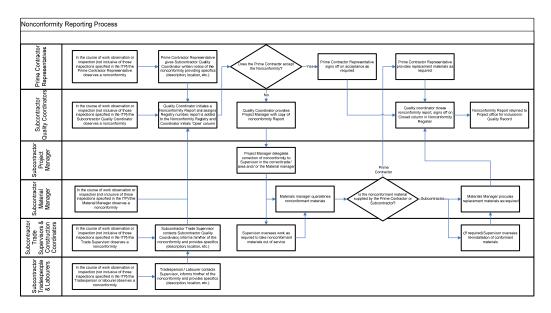
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- 3. Nonconformity is observed by a tradesperson or labourer in the field and reported to their Foreman or Supervisor
- 4. Nonconformity is observed by an agent of the Prime Contractor

All Non-conformances shall be copied to the Quality Manager as soon as they are initiated. All dispositions shall be submitted to the Quality Manager, and the Client's Quality Representative, prior to the remedial work commencing, for approval. No remedial work is to commence until this approval is obtained.

4.8.2.1 Procedure

The procedures to be followed in the identification and tracking of nonconformities is illustrated in the following diagram:



All non conformances shall be copied to the Quality Manager as soon as they are initiated.

All dispositions shall be submitted to the Quality Manager, and the Client's Quality Representative, prior to the remedial work commencing, for approval.

No remedial work is to commence until this approval is obtained

4.8.2.2 Nonconformity Control

The primary mechanisms of nonconformity control to be implemented are the Material Nonconformity Report Form and the Nonconformity Register.

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Nonconformity Report Forms shall form an element of the Quality Record.

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4.8.2.3 Nonconformity Report Form

The Nonconformity Report Form will feature the following information:

- Nonconformity Registry number
- Name of individual that observed the Nonconformity
- Name and signature of Quality Coordinator
- Description of Nonconformity
- Description of rectification
- Description of root causes

Nonconformity Report Forms are to be filled out only by the Quality Coordinator.

4.8.2.4 Nonconformity Register

The Nonconformity Register forms a part of the Quality Record.

The Nonconformity Register will consist of a grid wherein each row provides the information associated with a given Nonconformity Report. The columns of the Nonconformity Register will feature the following information for each Nonconformity Form:

- Nonconformity Registry Number
- Brief (2-3 words) Description
- 'Open' initial column
- 'Closed' initial column

5 Specific Work Activities

This section of the PQP directly addresses the manner in which Quality Control measures will be applied to specific work activities, as required by the Contract and Tender Documents and as directed by the PQP.

5.1 Construction of Access and Right-of-Way

The goals of the Project Quality Plan with respect to Construction access and ROW are as follows:

- 1. To ensure that access is constructed in accordance with the requirements of the Prime Contractor.
- 2. To promote and maintain the positive relationships of the Prime Contractor with Landowners along the ROW.
- 3. To ensure that gates and fencing are established in accordance with the requirements of the Prime Contractor.
- 4. To ensure that the ROW is restored in accordance with agreements between the Prime Contractor and affected landowners along the ROW.
- 5. To ensure that fence and access construction, as well as ROW restoration are documented for the purpose of assuring the Prime Contractor of the Quality of work completed.

Note: Control of access to the ROW is addressed in the Subcontractor's Access Plan.

Note: Environmental issues are addressed in the Subcontractor's environmental plan.

5.1.1 Access and Approaches

To ensure the conformance of constructed access roads and approaches, the Subcontractor Quality Coordinator, in cooperation with the Subcontractor Lands Manager will maintain a complete set of Plan and Profile drawings for each awarded section of ROW. In this set of Plan and Profile drawings, the following data will be recorded:

- Location and diagrams of every off-ROW access road or trail constructed by the Contractor
- An information box on each page indicating the status of the section of ROW

 Drawing amendments showing precisely which section of the ROW is addressed on the Plan and Profile drawing in question

Originator:

Approved:

 Information boxes for each access road or trail indicated on the Plan and Profile drawings indicating the status of the access facilities

When access to a section of ROW is granted by the Prime Contractor, the Subcontractor Lands Manager will mark all plan and profile drawings affected by the section of ROW to which access has been granted as 'Open'. The Land Manager will then affix a status label to the drawings for each off-ROW access trail. The status label will contain one of the following comments:

- Proposed Entered in the status box when an access trail has been determined to be required for access to one or more structures.
- Approved Entered in the status box when an access trail has been approved for construction or use.
- Abandoned Entered in the status box when the use of an access trail is no longer required.

Where a proposed access trail conforms to the Prime Contractor's access plan or any amendments thereto, the trail will automatically be assigned 'Approved' status.

Typically, access trails will only be assigned 'Abandoned' status after all stringing activities have been completed, along with pre-commissioning reports.

5.1.2 ROW Restoration

Project Quality Plan:

To ensure the conformance of ROW restoration with the requirements of the Prime Contractor (i.e. conformance with the Prime Contractor's agreement with the Landowner) the Subcontractor Quality Coordinator in cooperation with the Subcontractor Lands Manager will maintain a complete set of Plan and Profile drawings for each awarded section of ROW. In this set of Plan and Profile drawings, the following data will be recorded:

- The status of each section with respect to ROW access
- 'Redline' Mark-ups of areas that have been disturbed, along with note-box labels describing the condition of the ROW.



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The Subcontractor Lands Manager will be responsible for confirming the condition of the ROW. Following completion of construction and stringing activities, the lands manager will be responsible for directing and confirming the restoration of the ROW. Restoration of the ROW will be conducted in accordance with the requirements of the Contract.

If at any time over the course of ROW restoration a landowner directly expresses dissatisfaction with ROW restoration efforts, the Subcontractor will inform the Prime Contractor and continue with restoration activities under the Contract or any changes thereto.

Conformance of ROW restoration to the Contract will be demonstrated to the Prime Contractor by way of inspection. Documentation of the conformance of ROW restoration to the requirements of the Prime Contractor will be recorded.

5.2 Foundation Installation

The goals of the Project Quality Plan with respect to Foundation Installation are as follows:

- To ensure that the positions of installed foundations conform to the positions described by the Prime Contractor's established markers.
- To ensure that concrete employed in the construction of foundations conforms to the requirements of the Prime Contractor.
- To ensure that the compaction of backfill materials and subsurface materials beneath the structure conform to the Prime Contractor's requirements.
- 4. To ensure that the placement of reinforcing steel is completed in accordance with the Prime Contractor's requirements
- 5. To ensure that soils not conforming to the Prime Contractor's expectations are observed and reported.
- 6. To assure the Prime Contractor that all foundation work completed by the Subcontractor is completed in accordance with the Prime Contractor's requirements.

5.2.1 Positional Tolerances

The following measures will instituted to ensure that towers are installed in accordance with the Prime Contractor's drawing package:

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- 1. Upon arrival onsite the Subcontractor's personnel will establish offset stakes to allow space for the completion of work activities while preserving the locations of the Prime Contractor's stakes.
- 2. While foundation construction activities proceed, the offset stakes will be used to establish and confirm the positional dimensions of the foundation during the construction of forms and installation of caissons, and/or rock anchors.
- 3. Following the establishment of the lower elements of the foundation, a tower template will be used to confirm the location of the stub legs relative to each other. With the stub legs secured to the template, a (Subcontractor-employed) surveyor will confirm the location and orientation of the stub legs. The template and stub legs will then be secured with temporary works for the duration of tack welding or initial concrete setup.

For the purpose of assuring the Prime Contractor of the conformance of the positional dimensions of the installed tower to the tolerances provided by the Prime Contractor, the positional dimensions will be confirmed by the surveyor and recorded on Stub Angle Checklist Form. The site of the work will be available to the Prime Contractor for inspection at any time over the course of construction.

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VIMED Exhibit D 01006

5.2.2 Concrete Testing

The following measures will be implemented to ensure that all concrete installed over the course of the Project satisfies the requirements of the Prime Contractor with respect to its physical properties:

- 1. The concrete mix design will be submitted to the Prime Contractor for review two weeks prior to the delivery of concrete to the site.
- 2. No concrete will be accepted onsite if delivery tickets are not provided. These tickets will be preserved in the Quality Record and attached to Foundation Report for Structure for the purpose of associating loads of concrete (and their associated test cylinders) with the structure locations at which they were deposited.
- 3. The Subcontractor will cooperate with the Prime Contractor's Third Party testing subcontractor with respect to the coordination of concrete testing (slump test, break test, compressive testing, etc.).

5.2.3 Compaction Testing

Compaction testing will be performed in accordance with the requirements of the Contract; associated documentation will be collected by the Subcontractor for inclusion in the Quality Record and attachment to any required Forms. All relevant documentation will also be forwarded to the Prime Contractor. In the event that compaction testing reveals incompetent soils, the Subcontractor's Supervisor will immediately notify the Prime Contractor's representative.

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5.2.4 Forming and Placement of Reinforcing Steel

The following measures will be implemented for the purpose of ensuring that reinforcing steel is formed and placed in accordance with the requirements of the Prime Contractor:

- 1. The Subcontractor will submit CWB-approved welding procedures to the Prime Contractor for review 2 weeks prior to the completion of welding in the assembly and/or placement of reinforcing steel. In the completion of welding on any reinforcement steel installed on the Project, these welding procedures will be strictly adhered to (Note: Where welding is unnecessary in the assembly and placement of reinforcing steel, no such procedures will be submitted; the Subcontractor does not intend to weld together reinforcing steel except where it is specified by the Prime Contractor's documents).
- 2. The Subcontractor will submit bar placement diagrams to the Prime Contractor for review two weeks prior to the placement of reinforcing steel in a structure foundation (spread footing or castin-place caisson). For the generation of these drawings, the Subcontractor will require that the Prime Contractor distribute 'Issued for Construction' foundation drawings.
- 3. The Subcontractor will collect and archive mill test reports in the Quality Record at the time of receiving reinforcing steel at the Project marshalling yard. Mill test reports will be reviewed for the purpose of ensuring that received steel conforms to the requirements of the Prime Contractor with respect to the physical properties of the steel. In the event that a shipment of steel does not satisfy the requirement of the Prime Contractor, it will be returned to the supplier.
- 4. At the time of receiving, the Subcontractor will clearly label received reinforcing steel (or bundles thereof) with weather-proof bar tags referring the steel back to its mill test report. These tags will remain with the steel until such time as it is ready for installation at a foundation location.

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For the purpose of assuring the Prime Contractor of the conformity of installed reinforcing steel to its requirements, at the time of installation, bar tags will be removed from the reinforcing steel and affixed to one of the following Quality Reports (dependent upon the foundation element installed):

- 1. Foundation Report for Structure
- 2. Cast-in-Place Concrete Pile Log

These forms, along with the associated bar tags, will be submitted to the Prime Contractor as an element of the Quality Record.

5.2.5 Subsurface Confirmation

The following measures will be adopted for the purpose of confirming that the subsurface conditions encountered in the course of excavation match the subsurface conditions predicted by the Prime Contractor, or for the purpose of ensuring that — in the case where subsurface formations do not conform to the predictions of the Prime Contractor — the Prime Contractor is informed of the nature of the subsurface condition:

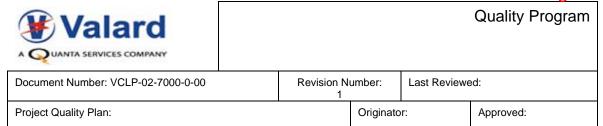
1. The Subcontractor will observe the nature of excavated soils and record such information.

5.3 Tower Installation

The goals of the PQP with respect to tower installation are as follows:

- 1. To ensure the proper fit and engagement of tower members.
- 2. To confirm the length and type of bolts installed on towers are in accordance with the requirements of the Prime Contractor.
- 3. To prevent the installation of bent, deformed, or damaged members on towers.
- 4. To ensure that test devices used in the assembly and erection of towers are properly calibrated.
- 5. To ensure that towers are installed on plumb.
- 6. To assure the Prime Contractor of the Quality of all tower installations.

5.3.1 Fit and Engagement



For the purpose of ensuring the fit and engagement of installed steel lattice tower members the Subcontractor will adopt the following measures:

- 1. At the time of assembly of tower panes or box sections assembly personnel will inspect joined members to ensure that there are no gaps at bolted joints (or in the case of back-to-back L-beams with spacers, personnel will check to ensure uniformity of the gap).
- 2. At the time of setting of the lower section of the tower on the foundation stub legs, the Foreman will conduct a visual inspection of the joint between the lower tower members and the stub legs to ensure there is no gap between the members and the tower is not twisted at the stub.
- 3. At the time of complete tower assembly (i.e. assembly of panes and sections) installation personnel and Foreman will conduct a visual inspection of joint plates and associated seams to ensure there is no gap between the joined sections of tower.
- 4. Additional spot inspections of tower arms will occur at the time of conductor installation and spacer installation. Personnel involved in these activities will report any discrepancies to their Supervisor who will in turn trigger a nonconformity report.
- 5. Subcontractor Foremen / Supervisors will perform post-assembly inspections of towers for the purpose of identifying nonconformities.

The following documentation will be provided to the Prime Contractor for the purpose of assuring the fit and engagement of completed tower assemblies:

- 1. Tower Assembly Acceptance Form
- 2. Structure Assembly and Installation Inspection Report

5.3.2 Length and Type of Bolts

The Subcontractor will adopt the following measures to ensure the correct length and type of bolts:

- 1. Assembly personnel will be directed to assemble towers using only hardware provided in tower kits by the Prime Contractor.
- 2. Assembly personnel will be given information regarding the visual identification of properly chosen size of fastener both before and after installation. Information provided will cover the following points:
 - a. Selecting the correct diameter of fastener

- b. Selecting the correct length of fastener
- c. Confirming the correct length of fastener (following installation)
- At the time of tower inspections (whether following partial or complete assembly), supervisory personnel will be directed to examine installed fasteners to ensure they have been chosen properly and are of appropriate length.
- 4. The Subcontractor will cooperate with the Prime Contractor with respect to the coordination of inspections of towers (it is assumed the Prime Contractor will also be examining fasteners to confirm correct choice).
- 5. Fastener choice will be cited as a potential element to be observed in the submission of nonconformity Reports.

For the purpose of assuring the Prime Contractor that towers have been assembled using the correct fasteners, fastener choice shall form an element of the inspections associated with the following Forms:

- 1. Tower Assembly Acceptance Form
- 2. Structure Assembly and Installation Inspection Report

5.3.3 Bent, Deformed, or Damaged Items

For the purpose of identifying, eliminating, and/or correcting bent deformed or damaged tower members and/or fasteners, the following measures will be implemented:

- Tower packages will be inspected both at the time of receiving and at the time of arrival onsite for assembly. Bent, deformed, or damaged members will be identified and logged on the structure shakedown report for notification of the Prime Contractor.
- 2. As towers are assembled, individual parts will be examined for fit and dimension. Bent, deformed, or damaged members will be identified and logged on the structure shakedown report for notification of the Prime Contractor.
- In the event that the Subcontractor identifies bent, deformed or damaged items, it will make written application to the Prime Contractor to the Prime Contractor of its intentions for the members (rework, remanufacture, re-order, etc.) prior to proceeding.

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- 4. Assembly personnel will be directed not to install bent or damaged members on towers.
- 5. At the time of tower inspections (whether following partial or complete assembly), supervisory personnel will be directed to examine tower members to ensure they are free of damage and defects.
- 6. The Subcontractor will cooperate with the Prime Contractor with respect to the coordination of inspections of towers (it is assumed the Prime Contractor will also be examining members to confirm that they are free of damage).
- 7. Member condition will be cited as a potential element to be observed in the submission of nonconformity Reports.

For the purpose of assuring the Prime Contractor that all towers have been assembled using only members that are straight and free of damage, member damage will be an element addressed in the inspections associated with the following Forms:

- 1. Structure Shakedown Report Form
- 2. Tower Assembly Acceptance Form
- 3. Structure Assembly and Installation Inspection Report

5.3.4 Installation Bolt Torque

Note: Because the two subjects are closely related and inspected in sequence, Installation Bolt Torque is addressed below along with Locking Devices.

5.3.5 Testing Tools and Calibration

In order to ensure that testing tools used in the assembly of towers conform to the requirements of the Contract, the following calibration schemes will be implemented:

- 1. Where power wrenches are used to torque bolts:
 - a. Calibrated slip devices will be used to prevent over-torque situations.
 - b. The Subcontractor will either procure the services of a testing laboratory to calibrate the slip devices daily, or it will purchase a standard and develop a testing rig for the purpose of calibrating slip devices on a daily basis.
- 2. Where manual wrenches are used to torque bolts:
 - a. To prevent over-torque situations, power wrenches having a maximum torque output less than the minimum torque specified in the Contract (40 ft-lbs) will be used for initial installation of bolts on the structure
 - b. Final torque installation will be completed using calibrated manual torque wrenches.
 - c. The Subcontractor will either procure the services of a testing laboratory to calibrate the slip devices monthly, or it will purchase a standard and develop a testing rig for the purpose of calibrating torque wrenches on a monthly basis.

For the purpose of assuring the Prime Contractor of the conformity of its torque devices to the requirements of the Contract, the following documentation will be included in the Quality Record for submission to the Prime Contractor (ref. Section 4.5 of the PQP):

- 3. Calibration / Testing Records
- 4. Tool Control Registry
- 5. Labels applied to torque devices

5.3.6 Locking Devices (and Installation Bolt Torque)

In order to ensure that locking devices and torque devices are used in accordance with the requirements of the Contract the following measures will be adopted:

- Copies of the torque charts for fasteners used in tower assembly as provided in the Contract will be distributed in the field (ideally these could form a part of the acceptance form or be printed on the back thereof).
- 2. Assembly personnel will receive training with respect to the use of power wrenches (with and without torque limiting devices) and manual torque wrenches.
- 3. Before the bolts to be installed in any given structure or surface thereof are secured at rated torque, all bolts on that structure or surface will be installed loosely, following which all bolts on the structure or surface will be installed to rated torque.
- 4. After each nut on the structure is torqued, the individual confirming the fastener torque will apply red permanent marker to the back side of the bolt.
- 5. After all bolts on a structure or surface are correctly torqued and the bottoms marked with red permanent ink, the structure will be inspected by the Foreman or Supervisor; the inspecting party will examine all fasteners for proper size and length, and torque-test 10% of the fasteners with a manual torque wrench. The inspection will then be recorded on the appropriate Quality Form.
- 6. Following the inspection of the structure or surface by the supervisor, each bolt will be deformed in the first thread emerging from its associated note using a punch/chisel and hammer ('caulking' or 'corking'). After each bolt is deformed, the individual performing the corking will then apply black permanent ink to the back of the bolt.
- 7. Following corking (caulking) and marking, the supervisor will conduct a second inspection.

The installation and marking procedure described in steps 4-7 is routine for the Subcontractor's tower assembly crews; it is referred to as the 'Torque and Cork' method.

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For the purpose of assuring the Prime Contractor of the conformance of tower assemblies to the requirements of the Contract, the following Forms will be used to document the inspections conducted in the course of and following assembly:

- 1. Tower Assembly Acceptance Form
- 2. Structure Assembly and Installation Inspection Report

5.3.7 Plumb / Straightness of Erected Towers

Because of the rigid nature of lattice towers, tubular steel monopoles, and wood pole H-frames, the straightness of a tower is entirely dependent upon a level foundation. As such, ensure that a tower is plumb equates precisely to ensuring that the foundation is level. The following measures will be implemented for the purpose of ensuring that towers are installed in plumb in accordance with the requirements of the Contract:

- 1. Upon arrival onsite the Subcontractor's personnel will establish offset stakes to allow space for the completion of work activities while preserving the locations of the Prime Contractor's stakes.
- While foundation construction activities proceed, the offset stakes will be used to establish and confirm the positional dimensions of the foundation during the construction of forms and installation of caissons, and/or rock anchors.
- 3. Following the establishment of the lower elements of the foundation, a tower template will be used to confirm the location of the stub legs relative to each other. With the stub legs secured to the template, a (Subcontractor-employed) surveyor will confirm the location and orientation of the stub legs (this process will be inclusive of confirming that the template is level). The template and stub legs will then be secured with temporary works for the duration of tack welding or initial concrete setup.

For the purpose of assuring the Prime Contractor of the conformance of tower assemblies with respect to plumb, each installation will be documented on a Stub Angle Checklist.

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5.4 Installation of Conductors

The goals of the PQP with respect to the installation of conductors are as follows:

- 1. To ensure that splice and deadend connectors are installed in accordance with the Prime Contractor's requirements.
- 2. To ensure that conductors are installed at the sag specified by the Prime Contractor.
- 3. To ensure that conductor tie-ins are completed in accordance with the requirements of the Prime Contractor.
- 4. To assure the Prime Contractor of the Quality of all conductor installations.

5.4.1 Sleeves, Deadends, and Electrical Connectors

For the purpose of ensuring the conformance of sleeves, deadends, and connectors to the requirements of the Contract, the following measures will be adopted:

- 1. All personnel involved in conductor bonding will receive training in the use of compression-type splices and deadends.
- 2. Completed splices will be inspected in detail for defects; unsatisfactory splices will be cut out and replaced.
- Compression-type splices will be inspected using go-no-go gauges 'across the flats'. Personnel will be provided with training in the use of go-no-go gauges.
- 4. At the option of the Prime Contractor, all implosive connectors will be installed in the presence of the Prime Contractor's Representative.
- 5. Implosive type sleeve connectors will be installed in accordance with Specifications.
- 6. Compression and implosive type connectors will be x-ray inspected at the Prime Contractor's option.

To assure the Prime Contractor of the conformance of deadends, sleeves, and connectors to the requirements of the Contract, splicing and connecting activities will be documented on the following Forms:

- 1. Conductor Splice Data Sheet
- 2. Conductor Splice Acceptance Form

To assure the Prime Contractor that the Subcontractor has properly accounted for all implosive sleeve connectors in its possession, the Subcontractor will document the storage and installation of implosive sleeve connectors on the following Forms:

- 1. Blasting Logs
- 2. Magazine Logs

5.4.2 Sag Verification

For the purpose of verifying the sag of installed conductors, the following measures will be implemented:

- In advance of stringing / sagging operations, the Subcontractor's proposed butt down and pulling setup areas will be submitted to the Prime Contactor for review.
- 2. Butt-down locations will be chosen so as to minimize conductor waste.
- 3. The Subcontractor will submit a written request for sag data to the Prime Contractor.
- 4. Stringing sheaves will be chosen to conform to the requirements of:
 - a. The Contract
 - b. The conductor manufacturer
 - c. IEEE standard 524
- 5. Stringing activities will be supervised by a qualified Supervisor with extensive experience in the tension stringing method of bundled conductor installation.
- 6. Stringing activities will be performed in conformance with the requirements.

For the purpose of assuring the Prime Contractor of the conformance of strung conductor to the requirements of the Contract, sagging activities will be documented in the following Forms:

- 1. Review of Contractor's Pull Sites Form
- 2. Stringing and Sag Data Reports

5.4.3 Ground Clearance Confirmation

As stated in the specification, ground clearance confirmation will be the responsibility of the Prime Contractor. The Subcontractor will cooperate with the Prime Contractor's Representative with respect to providing schedule information and confirming which sections of line are ready for ground clearance confirmation.

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5.4.4 Conductor tie-ins

For the purpose of ensuring that conductor tie-ins are completed in accordance with the requirements of the Contract the following measures will be implemented:

- 1. Clipping personnel will receive training in the correct installation of tie-in hardware in accordance with specifications. This training will be inclusive of:
 - a. Discussion of insulator handling and care
 - b. Discussion of hardware alignment and installation
 - c. Discussion of correct installation and orientation of cotter keys to allow for hotstick installation / removal.
- 2. Clipping personnel will be instructed in the correct installation of insulator string tie-ins with respect to offset distance.
- 3. Inspections will be conducted to ensure that conductor tie-in hardware is properly installed in accordance with the specification.

For the purpose of assuring the Prime Contractor that tying-in activities have been completed in accordance with the requirements of the Contract, the Subcontractor will document tying-in activities on Final Phase III Acceptance Form.

5.5 Final Inspections and Commissioning Patrols

The goals of the PQP with respect to final inspections and commissioning patrols are as follows:

- 1. To provide a final opportunity to ensure that all Quality-related properties of sections of the transmission line are confirmed prior to final handover of the line for commissioning.
- 2. To ensure that all commitments of the Subcontractor under the Contract have been satisfied prior to its closure of such Contract.
- 3. To assure the Prime Contractor of the overall Quality of all works constructed under the Contract prior to final handover of the transmission line.

Final inspections and patrols will be conducted and documented in accordance with Contract and in full cooperation with the Prime Contractor. These inspections will be documented in the following Forms:

- 1. Transmission Pre-Commissioning Check Form
- 2. Patrol Worksheet

(End of Document)

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SECTION 4 – SUBCONTRACTOR CONTROLS

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Created	Ву:	A. Felczak	Doc. Nur	nber	Health,	Safety & Envi	ronmer	ntal Policy 4.00	
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4.1 SUBCONTRACTOR POLICY

It is the policy of Valard that all direct hire and subcontractor employees are entitled to work in a safe environment. To achieve this, every reasonable effort shall be to eliminate hazards and prevent incidents that cause injury to workers, environmental damage and property damage. This effort shall include controls applied both before awarding a subcontract and during the execution of the work.

Valard believes that taking proper precautions can prevent incidents. It is the duty of every subcontractor, in the performance of their subcontract, to cooperate with and comply fully with Valard's Health, Safety & Environmental Manual and Provincial/Federal Health, Safety & Environmental Regulations.

4.2 PRECONTRACT CONTROLS

All subcontractors are to be evaluated before being considered for a subcontract to ensure they are capable of meeting Valard's safety standards.

Subcontractors being evaluated must submit the following documentation to Valard.

- Copy of subcontractor's safety manual
- Completed copy of Form 4.5.2 Subcontractor Prequalification Questionnaire Form
- Copy of A WCB clearance letter. If the subcontractor is unable to provide the document, the client must approve them prior to them entering the worksite.

The Vice President of Health and Safety will review these documents for acceptability. The subcontractor can be rated as "approved", "approved with conditions" and "rejected". Subcontractors with a "rejected" rating may be considered only if there are no "approved" or "approved with conditions" rated contractors available.

Subcontractors are to be advised that they are responsible for screening any of their subcontractors they retain to ensure they are capable of meeting Valard's Safety standards.

Valard's Health, Safety and Environmental Department will review and evaluate subcontractor's 4.5.2 Prequalification Questionnaire Form by completing Form # 4.5.3 and will either approve their Manual or request that Valard's HS&E Manual be followed.

4.3 PRECONSTRUCTION CONTROLS

Before subcontractors are permitted to mobilize on site and begin work, the following steps must be taken:

- Subcontractor Policy Agreement Form #4.5.1 must be signed and forwarded to the Edmonton office.
- A copy of the subcontractor's safety manual must be submitted to the project Area Supervisor.
- WHMIS Material Safety Data Sheets are to be submitted to the Area Supervisor or the Safety Coordinator for every controlled product the subcontractor uses or stores on site. MSDS's are not valid if they are over three years old. (See Section 13 of this Manual)

All subcontractor personnel must complete CSTS (Construction Safety Training System, offered by the Alberta Construction Safety Association) if:



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- The client requires it. Workers arriving for orientation must have a valid CSTS wallet card in their possession.
- Subcontractors are to ensure that they have an adequate number of employees trained in First Aid to meet the requirements of the OH&S First Aid Regulations.
- The subcontractor's Site Supervisor must attend a pre-job meeting and physically inspect the work site.
- Subcontractors must submit a Hazard Analysis for their scope of work. (See Section 6 of this manual)

4.4 CONSTRUCTION CONTROLS

Subcontractors in the process of performing work under the control of Valard must meet the following requirements:

- All work will be performed in accordance to the subcontractor's safety manual. If the standards set out in the subcontractor's manual is exceeded by Valard's Health, Safety & Environmental Manual, our clients Safety Manual and/or Legislation, the higher standard must be adhered to. Subcontractors without a manual or without elements included in Valard's manual shall follow Valard's manual.
- Workers arriving on a Valard's Site must receive Valard's Site Specific Orientation as per Section 8 of this manual and any applicable client required orientations.
- Subcontractors will be responsible for monitoring the performance of their employees and subcontractors and taking corrective action when necessary. (See Section 3 of this manual)
- All subcontractor employees will participate in a morning Tailboard (pre-task meeting) Valard and its subcontractors will hold joint meetings whenever practical. (See section 6 of this manual)
- All site subcontractor employees will participate in a monthly safety meeting. (See Section 8 of this manual)
- All subcontractors will perform a bi-weekly safety inspection and submit it to Valard's Foreman or Safety Coordinator. (See Section 9 of this manual)
- Subcontractors shall ensure that their employees have adequate Personal Protective Equipment available to them (See Section 10 of this manual)
- Subcontractors are required to report all incidents and near misses to Valard's Foreman and the Vice President of Health, Safety & Environment.
- Valard and their Subcontractors shall investigate as a minimum:
 - 1. Lost Time Incidents
 - 2. Medical Aid Incidents
 - 3. Incidents resulting in Modified Work
 - 4. Incidents that had potential for serious injury or property damage
- Valard and their subcontractors will provide the investigation of incidents results to the client if required.
- Subcontractors are to ensure their employees are familiar with site emergency procedures. (Both Valard's and the owner/clients if applicable).



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- Valard may require a manpower roster within one hour of work commencing for the day for evacuation head count purposes.
- Subcontractors shall actively manage WCB claims and will provide Modified Work whenever possible.
- Subcontractors shall at all time maintain a substance abuse program equivalent while on the worksite as documented in the Construction Owners Association of Alberta Model. (See Section 16 of this manual). In cases where the client's Alcohol and Drug Policy differs from the Canadian Model then Valard will inform the subcontractor and will provide a copy of the client's Alcohol and Drug Policy and that this policy must be communicated to their employees and it must be adhered to while working on their worksite.
- Subcontractors shall maintain all of their tools and equipment as per manufactures specifications. All tools and equipment must be inspected at the start of the job and then on a monthly basis thereafter. The inspections must be recorded and forwarded to Valard's' Area Supervisor or Safety Advisor. All mobile equipment must be accompanied with a mechanic's report on its condition including a signed statement that all safety switches operate as per manufacturer's design. Cranes/lifting devices require a Boom certificate dated within the past 12 months and recertified if it is expired before continuing work.
- On the last working day of the month, subcontractors are to submit their statistics for themselves and their subcontractors to the Area Supervisor or Safety Coordinator. The statistics must include:
 - 1. Number of First Aid Incidents
 - 2. Number of Medical Aid Incidents
 - 3. Number of Lost Time Incidents
 - 4. Number of Near Miss Incidents
 - 5. Number of Property Damage Incidents
 - 6. Number of Environmental Incidents
 - 7. Total Man Hours Worked
- Subcontractors are to provide or develop any necessary safe work practices and procedures. The practices and procedures must be applicable to the project.
- Subcontractors will be evaluated for compliance after a maximum of 30 days on site using Valard's Subcontractor's Site Safety Audit Form #4.5.4.
- All subcontractors will be evaluated after the specific project is completed using the following information;
 - Monthly Health and Safety stat reports as required in Section 21 (monthly HS&E reports)
 - 2. Site Inspection reports
 - 3. Form 4.5.2 Subcontractor's pre-qual
 - 4. Form 4.5.3 Subcontractor's Pre-qual audit
 - 5. Form 4.5.4 Subcontractors site safety audit
- The following individuals are to be present during the projects subcontractors' evaluation meeting, Valard's Vice President of Health and Safety, Project Manager, site Superintendent, site Safety Advisor, Valard's person in charge of



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subcontractors work and subcontractors project manager and site safety advisor if available.

• Subcontractors will be evaluated on the above 5 key result points and items that are identified as non compliance to Valard's HS&E requirements will be required to demonstrate a commitment to address these issues, will not be permitted to bid on work until they have shown until they satisfy the requirements.



SIGNED BY:

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4.5.1 SUBCONTRACTOR POLICY AGREEMENT FORM.

It is the policy of Valard Construction that all direct hire and subcontractor employees are entitled to work in a safe environment. To achieve this, every reasonable effort shall be to eliminate hazards and prevent incidents that cause injury to workers, environmental damage and property damage. This effort shall include controls applied both before awarding a subcontract and during the execution of the work.

Valard Construction believes that taking proper precautions can prevent incidents. It is the duty of every subcontractor, in the performance of their subcontract, to cooperate with Valard Construction and comply fully with Valard's Health, Safety & Environmental Manual and Provincial Health, Safety & Environmental Regulations.

I acknowledge and agree with the above policy and I will personally endeavour to ensure that the employees of my company comply with all of the above. I understand that non-compliance with these policies may result in the dismissal of individuals on site and/or the termination of my contract.

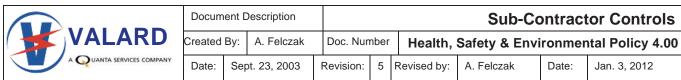
0.0.125 51.			
Senior Company Official	Company	Date	
Print Name + Title			
Site Supervisor	Company	 Date	
Print Name			
Additional required info:			
 Services supplied: 			
 Liability Insurance Certi 	ficate:		
• Phone #:	Fax #:		
• GST #:			

WCB Clearance Letter.

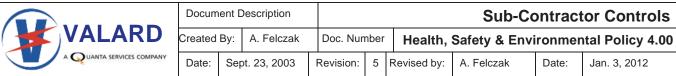
Note: All equipment must arrive with valid and current certification.

List of Equipment c/w current certification attached.

i.e. Cranes as well as boom trucks must have a boom inspection certificate within the last year. This includes all lifting equipment including manbaskets.



4.5.2	SUB-CONTRACTOR PRE-QUALIF	ICAT	ION QU	ESTIC	NAIRE FOR	RM	
Aud	litors			Date			
GEN	NERAL						
1.	Company Name		Telepho	one		Fax	
	Street Address	City	•	Province		Postal Code	
2.	Ch	ock cla	sses of wo	ark:			\equiv
2.	Concrete	n I ping/Lav ance tural Fin	wn Service	Roofing			
3.	Workers Compensation Experience Rate	ting:	lı	ndustry	/ code:		
	Rating: Year:			-	ership Discount	/Surcharge	
	20						
	20						
	20						
(cop	y of the past 3 years WCB Experience Ratir	ng attac	ched)				
4.							
A.	Employee hours worked last three years (excluding subcontractors)		20		20	20	
	Total Ho	urs:					
В.	Employee hours worked last three years (including subcontractors)		20		20	20	
	Total Ho	urs:					

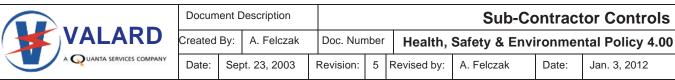


c) P	rovide the following data (excluding subcontractor) fr	om the p	ast three	e years:			
		20		20)	20)
		No.	Rate	No.	Rate	No.	Rate
In	jury related fatality						
	$Total \times 200,000 = Rate$						
	Total Employee Hours						
In	jury involving Lost Time						
	Total x 200,000 = Rate						
	Total Employee Hours						
In	jury related days total away from work						
	$Total \times 200,000 = Rate$						
	Total Employee Hours						
ln,	juries involving medical treatment only						
	Total x 200,000 = Rate						
	Total Employee Hours						
To	otal Recordable Injuries including LTI & M.A.						
	$\frac{Total \times 200,000}{Total \times Total} = Rate$						
_	Total Employee Hours						
10	otal number of restricted work cases						
	<u>Total x 200,000</u> = Rate						
T	Total Employee Hours otal number of days of restricted work activity						
10	Total x 200,000 $=$ Rate						
	Total Employee Hours						
Notes		applicab	le to the	work in t	his region	or area	
5.	Have you received any regulatory citations in the la			WOIK III C		es	
J.	Thave you received any regulatory citations in the la	ast tillee	years:			63	□ No
	If yes, please attach copies.						110
	ii yoo, picado attadii oopido.						
SAF	ETY & HEALTH MANAGEMENT						
6.	Highest ranking safety/health professional in the co						
	Title:	Tele	ephone:		Fax:		
7.	Do you have or do you provide:	,			,		
	a) Full-time Safety/Health Director					Yes	☐ No
	b) Full-time Site Safety/Health Advisor					Yes	☐ No
	At what time do you provide full-time safety per	rson:					
	c) Are foremen trained and responsible for day-to			ies?		Yes	☐ No
	INCIDENT REP	ORTING					
9.	Do you have a procedure for the investigation, repo	orting, an	d follow-	up of		Yes	☐ No
	incidents, near misses, and occupation injuries?						



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	SAFETY & HEALTH PROGRAMS & PROCEDURES		
10.	Do you have a written Safety and Health Program?	Yes	☐ No
	Does the program address the following key elements?		
	 Management commitment and expectations Employee/partners participation Accountabilities and responsibilities for managers, supervisors Resources for meeting safety & health requirements Periodic safety and health performance appraisals for all employee/partners Hazard recognition and control 	☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes	No No No No No No
11.	Does the program include work practices and procedures such as: a) Elevated Work b) Equipment Lockout and Tagout c) Confined Space Entry d) Hot Work e) Fall Protection f) Personal Protective Equipment g) Portable Electrical/Power Tools/Pneumatic h) Vehicle Safety i) Compressed Gas Cylinders j) Electrical Equipment Grounding Assurance k) Powered Industrial Vehicles (Cranes, Forklifts, JLG's, etc.) l) Housekeeping m) Excavation and Trenching/Stairways n) Unsafe Condition Reporting o) Emergency Planning p) Waste Disposal q) Scaffolding/Ladders/Stairways	Yes	No
12.	Do you have written programs for the following: a) Hearing Conservation b) Respiratory Protection Where applicable, have employees been: Trained Fit Tested Medically approved c) Hazard Communication Do you have a substance abuse program? If yes, does it include the following: Pre-employment Testing	☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	No No No No
14.	 Random Testing Random Testing Testing for Cause Site Access Do your employees read, write, and understand English such that they can perform their job tasks safely without an interpreter? In no, provide a description of your plan to assure that they can safely perform their jobs. 	Yes Yes Yes Yes	No No No



					L	
15.	(a) (b) (c)	edical Do you conduct medical examinations for: Hearing Pulmonary Respiratory Describe how you will provide first aid and other medical service? Do you have personnel trained to perform first aid and CPR?	·	 mployees	Yes Yes Yes while	☐ No ☐ No ☐ No on-site
16.	Do	you hold site safety and health meetings for:				
		Field Supervisors	☐ Yes	□No	Fred	quency
		Employees	☐ Yes	□No	Fred	quency
		New Hires	☐ Yes	□No	Fred	quency
		Subcontractors	☐ Yes	□No	Fred	quency
17.	Pe	rsonal Protection Equipment (PPE)				
	a)	Is applicable PPE provided for employees?			Yes	□No
	b)	Do you have a program to assure that PPE is inspected and	maintained?		Yes	☐ No
18.	Eq a) b)	uipment and Materials: Do you have a system for establishing applicable health, safe environmental specifications for acquisition of materials and Do you conduct inspections on operating equipment (e.g. cra JLG's) in compliance with regulatory requirements?	equipment?		Yes Yes	□ No
	c)	Do you maintain inspection and maintenance certification recoperating equipment which you own?	cords for		Yes	☐ No
	d)	Do you verify inspection and maintain certification on rented equipment?	or leased		Yes	□No
19.	Us	e of Subcontractors				
	a)	Do you have a pre-qualification process for subcontractors?			Yes	☐ No
	b)	Do you evaluate the ability of subcontractors to comply with and safety requirements as part of the selection process?	applicable healtl	h 🗌	Yes	☐ No
	c)	Do your subcontractors have a written Safety & Health Progr Do you include subcontractors in:	ram?		Yes	□No
	d)	Safety & Health Orientation			Yes	□No
	Sa	fety & Health Meetings Inspections Audits			Yes Yes	□ No □ No

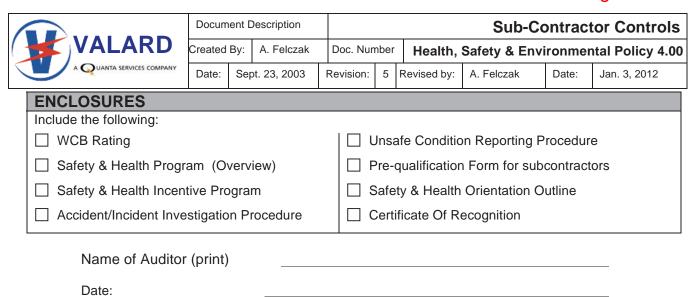


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20.	Sa	fety Audits	•		•	<u> </u>
	a)	Who conducts audits and at what frequency				
	b)	Do you conduct safety and health field audits?			Yes	□No
	c)	Do you audit your safety and health programs (Policies &	& Procedures)?	☐ Yes	□No
	d)	Are corrections of deficiencies documented?		,.	☐ Yes	□No
	e)	Do you have a corrective action process for addressing i	individual saf	oty &	☐ Yes	□ No
	<i>)</i>	health performance deficiencies	ilidividuai sai	ety &	□ 163	
	f)	Attach a copy of the Certificate of Recognition if available	е			
SAF	ETY	& HEALTH TRAINING				
21.	Cr	aft Training				
	a)	Have employees been trained in appropriate job skills?			☐ Yes	☐ No
	b)	Are employees job skills certified where required by regu	ılatory or indu	ustry		☐ No
	-\	consensus standards?			□ v	□ NI=
22	C)	Do job descriptions exist for each employee task?				∐ No
22.	Sa	fety & Health Orientation	New	Hires	Supervi	sors
	a)	Do you have a Safety & Health Orientation Program	☐ Yes	□ No	☐ Yes	□ No
	۵,	for new hires and new supervisors?				
	b)	Does the program provide instruction on the following:				
	,	New Worker Orientation	Yes	☐ No	Yes	☐ No
		 Safe Work Practices 	Yes	☐ No	☐ Yes	☐ No
		Safety Supervision	Yes	∐ No	∐ Yes	∐ No
		Toolbox Meetings	∐ Yes	∐ No	∐ Yes	∐ No
		Emergency Procedures	∐ Yes	∐ No	∐ Yes	∐ No
		First Aid Procedures	∐ Yes	∐ No	∐ Yes	∐ No
		Incident InvestigationFire Protection and Prevention	☐ Yes ☐ Yes	∐ No □ No	∐ Yes □ Yes	∐ No □ No
		Safety Intervention	☐ Yes	☐ No	☐ Yes	☐ No
		Hazard Communication/WHMIS	☐ Yes	□No	☐ Yes	□ No
		How long is the orientation program:		Ho		
23.	Tra	nining Records				
	a)	Do you have safety and health and crafts training record	s for your		☐ Yes	☐ No
		employees?				
	b)	Do the training records include the following:			_	_
		Employee identification			∐ Yes	∐ No
		Date of training			∐ Yes	∐ No
		Name of Trainer			∐ Yes	∐ No
	-1	Method used to verify understanding	المصد عمدال الما	٨	☐ Yes	☐ No
	c)	How do you verify understanding of the training? (Check	ali triat apply	/)		
		☐ Written Test		Monitoring		
		☐ Oral Test	Othe	_		
		Performance Test				

CIMFP Exhibit P-01886

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Signed:



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4.5.3 SUB-CONTRACTOR PRE-QUALIFICATION AUDIT FORM

7144	itors				Date:				
GEN	IERAL								
1	Company Name			Telep	hone			Fax	
	Street Address			City		Provii	nce	Posta	al Code
WOI	RK CLASSIFIC	ATION	IS						
2			Check clas	sses of	work:				
	Boiler Work		Heavy Hauling-Rigging		Painting			Other (Li	ist)
	Clerical		HVAC		Paving				
	Concrete		Inspection and Testing		Piping				
	Demolition		Instrumentation		Plumbing				
	Electrical		Insulation		Remediat	ion			
	Engineering		Janitorial		Roofing				
	Excavation		Landscaping/Lawn Service		Security				
	Fencing		Maintenance		Sheet Me	tal			
	Fire Protection		Manpower		Structural	Steel			
	Flooring		Mechanical		Tanks				
SAF	ETY & HEALTH	1 PRO	GRAMS AND PROC	EDU	RES				
3 3	Show the mechanis	sm that	is used to communicate the f			ety and I	nealth p	orograms	to the
3	Show the mechanic employees. View of	sm that docume	is used to communicate the f			ety and l		orograms	to the
	Show the mechanisemployees. View of Management comm	sm that docume mitment	is used to communicate the f			ety and I			
3	Show the mechanisemployees. View of Management commercemployee participations	sm that docume mitment ation	is used to communicate the f ntation from employee files. and expectations	ollowin	g from safe	ety and I] Yes	☐ No
3	Show the mechanis employees. View of Management common Employee participal Accountability & res	sm that document mitment ation sponsib	is used to communicate the fintation from employee files. and expectations litities for managers, supervise	ollowin	g from safe	ety and I		Yes Yes Yes	No No
3	Show the mechanisemployees. View of Management commendation of Management (Management of Management of M	sm that document mitment ation sponsib	is used to communicate the f ntation from employee files. and expectations ilities for managers, supervise ety & health requirements	ollowin	g from safe	ety and I] Yes] Yes] Yes] Yes	No No
3	Show the mechanisemployees. View of Management common Employee participal Accountability & researches for mee Hazard recognition	sm that document mitment ation sponsib eting safe and con	is used to communicate the f ntation from employee files. and expectations illities for managers, supervise ety & health requirements	ollowin	g from safe	ety and I		Yes Yes Yes	No No No
3	Show the mechanisemployees. View of Management communication Management communication Management communication Management communication Accountability & respectively. Resources for meeting Hazard recognition View training documents.	sm that document mitment ation sponsib eting safe and con	is used to communicate the f ntation from employee files. and expectations ilities for managers, supervise ety & health requirements	ollowin	g from safe	ety and I] Yes] Yes] Yes] Yes] Yes	No No No No
3	Show the mechanic employees. View of Management common Employee participal Accountability & research Resources for mee Hazard recognition View training documents.	sm that document mitment ation sponsib eting safe a and col mentation	is used to communicate the footation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the following	ollowin	g from safe	ety and I] Yes] Yes] Yes] Yes] Yes	No
3	Show the mechanisemployees. View of Management common Employee participal Accountability & research Resources for mee Hazard recognition View training document Elevated work Equipment Lockour	sm that document mitment ation sponsib eting safe and con mentation	is used to communicate the footation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the following	ollowin	g from safe	ety and I] Yes] Yes] Yes] Yes] Yes] Yes	No No No No No No No No
3	Show the mechanisemployees. View of Management communication of Management communicati	sm that document mitment ation sponsib eting safe and con mentation	is used to communicate the footation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the following	ollowin	g from safe	ety and I] Yes	No No No No No No No No
3	Show the mechanic employees. View of Management common Employee participal Accountability & results and recognition and View training documents. Elevated work Equipment Lockout Confined Space Enter Mot Work	sm that document mitment ation sponsib eting safe and con mentation	is used to communicate the footation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the following	ollowin	g from safe	ety and I] Yes	No
3	Show the mechanisemployees. View of Management communication of Management Confined Space Endit Work Fall Protection	sm that document mitment ation sponsible and commentation mentation t & Tago	is used to communicate the formation from employee files. and expectations illities for managers, supervise ety & health requirements entrol on and procedures for the follout	ollowin	g from safe	ety and I] Yes	No
3	Show the mechanisemployees. View of Management commendates and Management commendates and Management commendates and Management commendates and Management a	sm that documen mitment ation sponsib eting safe and col mentation t & Tago ntry	is used to communicate the footation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the foll out	ollowin	g from safe	ety and I] Yes	No
3	Show the mechanisemployees. View of Management common Employee participal Accountability & research Resources for meet Hazard recognition View training document Lockour Elevated work Equipment Lockour Confined Space Enter Hot Work Fall Protection Personal Protective Portable Electrical/	sm that documen mitment ation sponsib eting safe and col mentation t & Tago ntry	is used to communicate the footation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the foll out	ollowin	g from safe	ety and I] Yes	No
3	Show the mechanisemployees. View of Management communication of Management and Management of Management Confined Space Endet Work of Management Confined Space Endet Confined Spac	sm that documer mitment ation sponsible eting safer and commentation t & Tagontry	is used to communicate the fontation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the foll out	ollowin	g from safe	ety and I] Yes	No
	Show the mechanisemployees. View of Management commendation of Management and Management commendation and Management commendation and Management and Management commendation and Management commendation and Management and Manageme	sm that documen mitment ation sponsib eting safe and col mentation t & Tago ntry e Equipr /Power T	is used to communicate the fontation from employee files. and expectations illities for managers, supervise ety & health requirements introl on and procedures for the foll out	ollowing:	g from safe	ety and I] Yes	No

		Docum	ent Description				Sı	ıb-Contrac	tor Controls
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	A QUANTA SERVICES COMPANY	Date:	Sept. 23, 2003	3	Revision: 5	Revised b	y: A. Felcz	ak Date:	Jan. 3, 2012
	Housekeeping							☐ Yes	□No
	Excavation and Tren	ching/St	airways					☐ Yes	□No
•	Unsafe Condition Re	porting b	y Employees					☐ Yes	□No
	Emergency Planning							☐ Yes	☐ No
	Waste Disposal							☐ Yes	□No
	Scaffolding/Ladders/	Stairway	S					☐ Yes	□No
4.	View training docume	entation	for the following	ng p	rograms. Ch	eck that th	nese exist fo	r each applicat	ole employee.
	a) Hearing Conser	vation						☐ Yes	☐ No
	b) Respiratory Prot	ection						☐ Yes	☐ No
	Where applicabl	e, have	employees be	en:					
	☐ Train	ed							
	☐ Fit Te	ested							
		cally App	proved						
	c) Hazard Commu							☐ Yes	□ No
	d) Program to supp	ort the c	contractor requ	uirer	ments of a ha	zard asse	ssment .	☐ Yes	☐ No
_	177						<u> </u>	D (1	
5.	View contractor's do following:	cumenta	tion for comm	unic	ating their su	bstance a	buse progra	m. Does this ii	nclude the
	Tollowing.								
	· Pre-employmen	t Testing						☐ Yes	☐ No
	Random Testing	1						☐ Yes	☐ No
	 Testing for Caus 	se						☐ Yes	☐ No
	T								
6.	Are safety meetings	held for t	the following:						
	 Field Supervisor 	S			Yes	☐ No	Freque	ency	
	· Employees				Yes	☐ No	Freque	ency	
	· New Hires				Yes	☐ No	Freque	ency	
	· Subcontractors				Yes	☐ No	Freque	ency	
	Are the safety and he	ealth me	etings docum	ente	d?	☐ Yes	□No		
7.	Personal Protection								
	a) Is applicable PP	E provid	ed for Employ	ees'	?			☐ Yes	□ No
	b) View documenta	-				is inspec	ted and	☐ Yes	□ No
	maintained		ene program a	<i>-</i> 43.		. 13 1113pcc			
	06	- (!	-1			- f l-l			
8.	Show mechanism the individual safety and					s for addre	essing	☐ Yes	☐ No
9.	View the supporting	documer	nts that addres	ss th	ne following m	aterial an	d equipmen	t questions:	
	System for estal specifications for specifications for specifications.						ntal	☐ Yes	☐ No
	b) Checklist and pr cranes, forklifts,							☐ Yes	☐ No
1	c) Inspection and r	-			-	-		☐ Yes	□No

		Document	Description				Sub-	-Contrac	tor Controls
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10.	Subcontractors:							•	
	a) View safety and	health perfo	ormance criter	ia in selec	tion	of subcontra	ctors?	☐ Yes	П №
	b) Show the mech	•						□ Yes	□ No
	applicable healt								
	c) View the subcor							☐ Yes	☐ No
	d) View the support for subcontractor		entation that s	hows atte	ndan	ce of the foll	owing	☐ Yes	☐ No
	1	& Health Or						☐ Yes	☐ No
	<u> </u>	& Health Me	eeting					Yes	□ No
	· Inspec	tions						Yes	□No
	· Audits View the following:							☐ Yes	∐ No
								_	_
	a) Safety and heal	th inspectior	ns?					∐ Yes	∐ No
	b) Safety and heal			lafiaian aia	.			☐ Yes ☐ Yes	□ No
	c) Supporting docu	iments for co	orrections of t	<u>ienciencie</u>	S ?			☐ res	∐ No
SAFE	TY & HEALTH TRAIN	ING							
11.	Craft Training								
	a) Show craft spec	ific training o	documentatio	n for empl	oyee	S		☐ Yes	☐ No
	b) View certificatio standards	n where requ	uired by regul	atory or in	dustr	y consensus	5	☐ Yes	☐ No
	c) Show document to tasks being p						ionship	☐ Yes	☐ No
CON	IMENTS:								
12.	Safety & Health Ori	entation							
						Nev	v Hires	Sı	upervisors
	a) View the Safety hires and newly				ew	☐ Yes	☐ No	☐ Yes	☐ No
	b) Does program p	rovide instru	uction on the f	ollowing:					
	· New Worke	er Orientation	ı			☐ Yes	☐ No	☐ Yes	☐ No
	 Safe Work 					☐ Yes	☐ No	☐ Yes	☐ No
	Safety Superior					☐ Yes	☐ No	☐ Yes	□ No
	· Toolbox Me	_				☐ Yes	☐ No	☐ Yes	□ No
		Procedures				☐ Yes	☐ No	☐ Yes	□ No
	First Aid Pr					☐ Yes	□No	☐ Yes	□No
	Incident Inv	•				☐ Yes	□ No	Yes	
		tion and Pre	vention			☐ Yes	□No	☐ Yes	
	Safety Inter					☐ Yes	□No	☐ Yes	
		mmunication				☐ Yes	☐ No	Yes	☐ No
	c) How long is the	orientation p	orogram?					Hours	

COMMEN 13. Train a)	ing Records View safety & F Do the training Emplo Date of	Created By Date: S Health & cra records incovee Identification	Sept. 23, 2003 aft training reco		5	Revised by:			tor Controntal Policy 4. Jan. 3, 2012
COMMEN 13. Train a)	ing Records View safety & H Do the training Emplo Date of Name	Date: State of Training	Sept. 23, 2003 aft training reco	Revision:	5	Revised by:		Date:	Jan. 3, 2012
I3. Train	ing Records View safety & H Do the training Emplo Date of Name	lealth & cra records ind yee Identif	aft training reco	rds for you			A. Felczak		
13. Train	ing Records View safety & F Do the training Emplo Date of	records ind yee Identifor f Training	clude the follow		r em	ployees?		Yes	□ No
a) '	View safety & F Do the training Emplo Date of Name	records ind yee Identifor f Training	clude the follow		r em	ployees?		Yes	□No
a) '	View safety & F Do the training Emplo Date of Name	records ind yee Identifor f Training	clude the follow		r em	ployees?		☐ Yes	│ □ No
a) '	View safety & F Do the training Emplo Date of Name	records ind yee Identifor f Training	clude the follow		r em	ployees?		☐ Yes	□No
a) '	View safety & F Do the training Emplo Date of Name	records ind yee Identifor f Training	clude the follow		r em	ployees?		☐ Yes	□No
	Do the training Emplo Date o Name	records ind yee Identifor f Training	clude the follow		r em	ployees?		∐ Yes	∐ No
b) I	Emplo Date o Name	yee Identif of Training		ing:					
	Date o Name	of Training	ication						
	Name	_						Yes	□ No
		of trainer					I	☐ Yes ☐ Yes	
			erify understar	ndina				☐ Yes	□ No
		a acca to .	only underetar	iding					
c) I	How is training	verified? (Check all that a	apply)					
	☐ Written Te	st				Job Monitor	ing		
	Oral Test	- .				Other (List)			
COMMEN	Performan	ce lest							
Signature of Safety	Company Direc	ctor: of Hea	alth and						_

Reviewer: ____

Date:



Document Description Sub-Contractor Control						or Controls		
Created	Ву:	A. Felczak	Doc. Nur	nber	Health,	Safety & Envi	ronmer	ntal Policy 4.00
Date:	Sep	ot. 23, 2003	Revision:	5	Revised by:	A. Felczak	Date:	Jan. 3, 2012

EVALUATION CRITERIA

Safety and Health Performance	Acceptable	Needs Improvement
Modified Work cases Medical Aid cases Lost Time Rate Citations Safety and Health Program	☐ ☐ ☐ Acceptable	□ □ □ Needs Improvement
Safety & Health Staff		
Safety & Health Program		
Safety & Health Procedures		
Substance Abuse Policy		
English Comprehension		
Safety Meetings		
Subcontractor Programs		
Inspections		
Training		
Requested Copies Provided		
Contractor should be added to the approved contractors lis	t:	☐ No
Audited by:	Date:	

L Audited by:	Data:
Addited by:	Date.



Document Description Sub-Contractor Contr						tor Controls		
Created	Ву:	A. Felczak	Doc. Nun	nber	Health,	Safety & Envi	ironmer	ntal Policy 4.00
Date:	Sep	ot. 23, 2003	Revision:	5	Revised by:	A. Felczak	Date:	Jan. 3, 2012

4.5.4 SUBCONTRACTOR SITE SAFETY AUDIT CHECKLIST

Area:	Contractor Company Name:	Valard Representative:
Location:	Audit Date:	Contractor Representative:

ITEM

Rating:

O Contractor meets none of the requirements of the category
Contractor meets some of the requirements of the category

10 Contractor meets all requirements of the category

PERSONAL PROTECTIVE EQUIPMENT Comments

Rating

1. Is proper Personal Protective Equipment being us	ed?
a) Head	
b) Eyes	
c) Hearing (If applicable)	
d) Respiratory (If applicable)	
e) Foot	
f) Goggles on hard hat (if applicable)	
g) Flame retardant garment (If applicable)	
h) Face	
i) Others	
SAFE WORK PROCEDURES	
1. Housekeeping?	
2. Fall Protection Used?	
3. Open holes/danger zone barricaded/lights at night?	
4. Lockout/Tagout procedures followed?	
5. Chemical labels displayed?	
6. Food consumed in lunch area only?	
7.	Scaffold
procedures followed (i.e. kick boards, railings, tagged)?	

Name of Applicant: VALARD CONSTRUCTION LP	
Name of Contract: ATCO HANNA DEVEVELOPMENTS	
Number of Contract:	
Country and Location: Hanna, Alberta	
Contract Role:	
Prime Lead Partner Partner in Subcontractor In Joint Venture	
Name of Client (or Prime Contractor if Contract Role was as Subcontractor):	
ATCO Electric	
Client's Representative:	
1. Name: Quyen Neguien	
2. Title:	
3. Telephone No. <i>780-420-5640</i> 4. Email Address:	
4. Email Address: Client's Address: 10035 – 105 th Street	
PO Box 2426 Station Main	
Edmonton, Alberta T5J 2V6	
Value of the Contract in equivalent CAD\$: \$172,000,000	
Schedule:	
1. Date of Award: Fall 2011	
 2. Date of Completion as specified in the Contract on the date of award: Various in 2012 3. Actual Date of Completion: Various in 2012 	
Description of the Work Performed:	
bescription of the Work'r chomica.	
Regional Transmission Develop	
Full construction for segments 1 & 2	
T3 Transmission Line – 17km single circuit 144kV	
T6 Transmission Line – 240km double circuit 240kV	
T7 Transmission Line – 2km double circuit 240kV	
T4 Transmission Line – 95km single circuit 144kV	
All circuits used self supporting lattice steel structures	

All stringing was done using helicopters

FORM 1.1 - APPLICANT EXPERIENCE

Name of Applicant: VALARD CO	NSTRUCTION LP
Name of Contract:	LOOP PROGRAM
Nonneas	2001 TROUNANT
Number of Contract:	
Country and Location: Northeast Alb	erta
Contract Role:	
	rtner in Subcontractor nt Venture
Name of Client (or Prime Contractor if Contract R	ole was as Subcontractor):
ATCO ELECT	RIC
Client's Representative:	
1. Name: Dean Kandt	
2. Title:	
 Telephone No. Email Address: dean.kandt@ 	atcoelectric.com
Client's Address:	<u>accoelectric.com</u>
Value of the Contract in equivalent CAD\$: \$90	0,400,000
Schedule:	
1. Date of Award: November 2011	at an the date of accord
2. Date of Completion as specified in the Contra Various dates thro	
3. Actual Date of Completion: Various dates the	_
See attached project summary sheet for specific in	nformation on schedule performance
Description of the Work Performed:	
The ATCO Northeast Loop Program included the f 1. 240kV Tower Lines 2. 144kV Wood Pole Lines	following sub-projects:
3. Substations in Fort McMurray and the W	'abasca areas. The project itself started
approximately 20km southwest of the Fort McMu sections of a pipeline, a 260kV Steel Lattice T Refineries. The 127km right-of-way was primarily	urray Airport and ran 127km north paralleling ransmission Line and several Tar Sands Oil

by pipeline and logging companies. There were two river crossings involved.

The project was required to supply the load demands in the Fort McMurray region. As the Transmission Facilities Owner (TFO), ATCO Electric was required to construct 240kV double circuit transmission lines, 144kV transmission Lines and substations for the following sections:

- from the proposed Salt Creek substation to the proposed Black Fly substation
- from the proposed Black Fly substation to the proposed McClelland substation
- from the proposed Black Fly substation to the proposed Green Stocking substation
- from the proposed Salt Creek substation to connect to the existing 240-kV line

The substations included four (4) new greenfield 240kV substations and four (4) new greenfield 138kV substations near Fort McMurray, at the Husky Sunrise Plant and North of Fort McMurray. An additional substation required salvage to be completed. Our scope of work included full construction; installation of ground grid, above-ground grounding, steel erection, equipment erection, bus works, electrical control cable installation and termination.

The following substations were included in this project:

- 240kV Salt Creek Greenfield substation
- 240kV Livock Greenfield substation
- 240kV Green Stocking Greenfield substation
- 138kV Quigley Greenfield substation
- 138kV Germain Greenfield substation
- 138kV Kinosis Addition to existing substation

Salvage of the reactor and switches at the Ruth Lake substation was later added to the contract on an hourly rate basis.

See attached Project Summary Sheet for further information



NORTHEAST LOOP PROGRAM

Northeast Alberta / Fort McMurray & Wabasca Areas
November 2011 – Staggered Completion Dates Throughout 2012

Owner: ATCO Electric Contacts:

Orrin Perry e-mail <u>Orrin.Perry@atcoelectric.com</u> – substations Dean Kandt email: <u>dean.kandt@atcoelectric.com</u> – lines Reza Sharifi – 780 733 2685 - lines

The ATCO Northeast Loop Program included the following sub-projects:

- 1. 240kV Tower Lines
- 2. 144kV Wood Pole Lines
- 3. Substations in Fort McMurray and the Wabasca areas



The project itself started approximately 20km southwest of the Fort McMurray Airport and ran 127km north paralleling sections of a pipeline, a 260kV Steel Lattice Transmission Line and several Tar Sands Oil Refineries. The 127km right-of-way was primarily accessed via a radio-controlled road shared by pipeline and logging companies. There were two river crossings involved.

The project was required to supply the load demands in the Fort McMurray region. As the Transmission Facilities Owner (TFO), ATCO Electric was required to construct 240kV double circuit transmission lines,

144kV transmission Lines and substations for the following sections: (refer to the attached map)

- from the proposed Salt Creek substation to the proposed Black Fly substation
- from the proposed Black Fly substation to the proposed McClelland substation
- from the proposed Black Fly substation to the proposed Green Stocking substation
- from the proposed Salt Creek substation to connect to the existing 240-kV line



The substations included four (4) new greenfield 240kV substations and four (4) new greenfield 138kV substations near Fort McMurray, at the Husky Sunrise Plant and North of Fort McMurray. An additional substation required salvage to be completed.

Our scope of work included full construction; installation of ground grid, above-ground grounding, steel erection, equipment erection, bus works, electrical control cable installation and termination.



240kV Salt Creek Greenfield substation 240kV Livock Greenfield substation 240kV Green Stocking Greenfield substation Greenfield substation 138kV Quigley 138kV Germain Greenfield substation

138kV Kinosis Addition to existing substation



Salvage of the reactor and switches at the Ruth Lake substation was later added to the contract on an hourly rate basis.





The 240kV Transmission Line has 323 double circuit 240kV RC22 type steel lattice structures carrying two-bundle 795 kcmil ACSR "Drake" conductor in addition to one OPGW and one overhead shield wire. There were also several sections of 240kV H-Frame wood pole structures with two-bundle 477 kcmil ACSR "Hawk". The towers vary in height from 43meters to 58 meters and in weight from 13,700 Kg to 82,000 Kg. This section was split between 2 seasons; approximately 240 structures were completed from December 11, 2011 to April 5, 2012. Valard's scope of work including the assembly of all

towers, erection, stringing of conductor and wire, and commissioning.

28 Structures were also added to Valard's scope 83 Structures remain to be completed.

Three major crossings are involved in the project including two River Crossings over the Clearwater and Steepbank Rivers, and one hotline crossing over the 260kV Steel Lattice.



Two 144kV projects were also completed in two separate areas, South of Fort McMurray and in Cheecham, AB. Construction of approximately 5km's of new wood 144kV powerline from the new Salt Creek Substation to the existing Hangingstone Substation and 13km from Quigley Substation to Kinosis Substation.

The scope of work was for material delivery, pole setting, stringing and commissioning

Valard utilized 430 personnel on the project consisting of linemen, electricians, equipment operators, laborers, supervisors, safety personnel, administrative staff and management positions.

Accommodations were handled in self sustained camps located along the line route at various locations and in the existing oilsand's camps.



SCHEDULE PERFORMANCE

Substation November 31, 2011 – December 31, 2012

Schedule has been delayed for 240kV Livock Substation, 240kV Blackfly and

138kV McCellan Lake / shifted at the client's request

240kV Salt Creek Substation, 240kV Greenstocking, 138kV Quigley, 138kV

Germain, 138kV Kinosis Substations were completed on time.

240kV Transmission Line Dec 31, 2011 – March 31, 2012

Requested ISD was April 4, 2012

144kV Transmission Line

Quigley to Kinosis

Jan 3, 2012 - March 31, 2012

Requested completion date was March 9, 2012

The schedule was extended by 22 days at our request due to weather / time of

year

144kV Transmission Line

Feb 28, 2012 – March 29, 2012

Hangingstone to Salt Creek

Requested completion date was March 31, 2012

The project was completed on time with no extensions or delays

COST PERFORMANCE / BUDGET MANAGEMENT

Substations:

Value of Contract: \$17,200,000 Extra Claims: \$1,200,000

All change orders were initiated and requested by the client / ATCO Electric

240kV Transmission Line:

Value of Contract: \$65,000,000

\$4,400,000 for additional scope Extra Claims:

> All change orders were initiated and requested by the client / ATCO Electric. The majority of the change orders were for increased and additional scope of work items;

we were requested to perform work originally in another contractor's contract.



144kV Transmission Line

Quigley to Kinosis: Value of Contract: \$1,800,000

144kV Transmission Line

Hangingstone to Salt Creek: Value of Contract: \$800,000

Name of Applicant: VALARD CONSTRUCTION		
Name of Contract: WESLEY TO MEIKLE		
Number of Contract:		
Country and Location: Northern Alberta		
Contract Role:		
Prime Lead Partner Partner in Subcontractor		
Name of Client (or Prime Contractor if Contract Role was as Subcontractor): ATCO Electric		
Client's Representative:		
1. Name: Mark Durby		
2. Title:		
3. Telephone No. 1-780-420-7603		
4. Email Address:		
Client's Address: #400, 10235 – 101 Street 4 th Floor		
Edmonton, Alberta T5J 1V9		
133 179		
Value of the Contract in equivalent CAD\$: \$10,600,000		
Schedule:		
1. Date of Award: 2010		
2. Date of Completion as specified in the Contract on the date of award: 2010		
3. Actual Date of Completion: 2010		
Description of the Work Performed:		
Construction of 125km of double circuit, double bundled lattice steel tower line.		
97km of the line was fully constructed and completed in 87 days.		

Name of Applicant: VALARD CONSTRUCTION
Name of Contract: BP NOEL
Number of Contract:
Country and Location: Dawson Creek, BRITISH COLUMBIA BC
Contract Role:
Prime Lead Partner Partner in Subcontractor in Joint Venture
Name of Client (or Prime Contractor if Contract Role was as Subcontractor):
British Petroleum
Client's Representative: 1. Name: unavailable; no longer with the company 2. Title: 3. Telephone No. 4. Email Address:
Client's Address:
Value of the Contract in equivalent CAD\$: \$16,000,000
Schedule: 1. Date of Award: 2008 2. Date of Completion as specified in the Contract on the date of award: 2009 3. Actual Date of Completion: 2009
Description of the Work Performed:
Engineer, Procure, Construct contract for 70km single circuit 138kV transmission line in Northern BC Transmission line was required to connect 3 compressor sites to BC Hydro's system. Wood pole structure using 366kcmil ACSR conductor

Name of Applicant: VALARD CONSTRUCTION LP		
Name of Contract: BRUCE x MILTON		
DOUBLE CIRCUIT 500kV TRANSMISSION LINE		
Number of Contract:		
Country and Location: West of Toronto		
ONTARIO		
Contract Role:		
Prime Lead Partner Partner in Subcontractor Contractor in Joint Venture Joint Venture		
Name of Client (or Prime Contractor if Contract Role was as Subcontractor):		
HYDRO ONE NETWORKS INC.		
Client's Representative:		
1. Name: Mike Power		
2. Title: Project Manager		
3. Telephone No. 416-345-1333		
4. Email Address: michael.power@hydroone.com		
Client's Address: 483 Bay Street South Tower 7th Floor		
Toronto, ON M5G 2P5		
Value of the Contract in equivalent CAD\$: \$143,400,000.00		
Schedule:		
1. Date of Award: 2009		
 2. Date of Completion as specified in the Contract on the date of award: December 2012 3. Actual Date of Completion: April 2012 		
Description of the Work Performed:		
Construction of 175km of double circuit 500kV lattice steel tower line between the Bruce Nuclear plant and Milton, Ontario. Four-bundled 973kcmil ACSR conductor.		
Please see attached Project Summary sheet for more detailed information about the project.		



BRUCE x MILTON DOUBLE CIRCUIT 500kV TRANSMISSION LINE

2009 - 2012

Owner: Hydro One Networks Inc. Contact: Michael Power 416-345-1333

The Bruce to Milton Transmission Reinforcement Project included the construction of all above-ground facilities for a new double circuit 500kV lattice steel transmission line in Ontario.

The program was the largest expansion to Ontario's transmission system in 20 years. Valard Construction was selected by Hydro One to construct the new overhead transmission line from Bruce Nuclear Generating Station on the shores of Lake Huron to the Milton Substation in the Greater Toronto Area, Ontario. The new line was located largely on a widened existing transmission corridor

The scope of this critical project included:

- Assembly and erection of 720 steel lattice towers
- Stringing of 180 kilometers of new 500 kV double circuit conductor, 4 bundle 732 ACSR/TW (OHSW and OPGW)





Challenges ranged from land acquisition timelines that impacted construction schedules to crossing Highway 401 and several railroad tracks. The line also crossed near or through several environmentally sensitive areas, including four watersheds, rivers, the Saugeen Ojibway Nations Reserve and the Niagara Escarpment.



Valard Construction held Notice of Project and were the Constructor

SCHEDULE PERFORMANCE

Following initial mobilization in 2009, the project was delayed by the Owner / Hydro One for approximately one year.

Revised completion date was set for December 2012

A series of subsequent schedule advancements were requested by Hydro One and the project was successfully completed 7months (approximately 215 days) early.

Completion date = end April 2012

COST PERFORMANCE / BUDGET MANAGEMENT

The initial contract was awarded at \$271,000,000 The final value was \$143,359,448

There were eight (8) change orders on the project; all issued and initiated by the client / Hydro One. No change orders initiated by Valard

Name of Applicant: VALARD CONSTRUCTION LP		
Name of Contract: EDMONTON 240KV LINE UPGRADE (DE-BOTTLENECKING)		
Number of Contract:		
Country and Location: Edmonton, AB		
Contract Role:		
Prime Lead Partner Partner in Subcontractor		
Name of Client (or Prime Contractor if Contract Role was as Subcontractor):		
SNC Lavalin ATP Inc. for AltaLink Management Ltd		
Client's Representative:		
1. Name: Bill Ennse		
2. Title:		
3. Telephone No. 1-780-426-1000 4. Email Address: bill.ennse@snclavalin.com		
Client's Address: 608, 10235 – 101 Street		
Edmonton, Alberta T5J 3G1		
Value of the Contract in equivalent CAD\$: \$19,200,000		
Schedule:		
1. Date of Award: December 2011		
2. Date of Completion as specified in the Contract on the date of award:		
3. Actual Date of Completion: October 2012		
Description of the Work Performed:		
Construction of 60km of single and double circuit 240kV self-supporting lattice steel tovusing double bundled 1033kcmil ACSR conductor.	vers	

Name of Applicant:	VALARD CONSTRUCTION LP	
Name of Contract:	HERBLET-RALLS TRANSMISSION LINE	
Number of Contract:		
Country and Location:	The Pas, Manitoba	
Contract Role:		
Prime Contractor	Lead Partner Partner in In Joint Venture Subcontractor	
Name of Client (or Prim	ne Contractor if Contract Role was as Subcontractor): Manitoba Hydro	
Client's Representative	:	
	Greg Malcolm	
	Field Project Manager, Manitoba Hydro	
3. Telephone No.	gsmalcolm@hydro.mb.ca	
Client's Address:	Winnipeg, MB	
Value of the Contract in	n equivalent CAD\$: \$15,000,000	
Schedule: 1. Date of Award:	Fall 2010	
	as specified in the Contract on the date of award: April 201.	1
3. Actual Date of Com		-
Description of the Work	k Performed:	
Line use of 954 kcmil is steel towers. The contract included to foundations in rock stringing of conductors,	truction for a 165km cross country 230kV single circuit Tran ACSR "Cardinal". Structures were guyed-Y and self supportion the installation of temporary access road; installation of vari k, earth and swam; installation of anchors; assembly erec of, overhead ground wires and OPGW. Ising various conventional and helicopter techniques.	ng lattice

Name of Applicant: VA	ALARD CONSTRUCTION LP	
Name of Contract: KE.	ARL OILSANDS PROGRAM	
Number of Contract:		
Country and Location:	Fort McKay, Alberta	
Contract Role:		
☐ Prime ☐ Lead Partner Contractor in Joint Venture	Partner in Joint Venture Subcontractor	
Name of Client (or Prime Contractor if C	Contract Role was as Subcontractor): Fluor	
Client's Representative:		
1. Name: Mike Bilotta		
2. Title:		
3. Telephone No. 403-537-4793		
4. Email Address: Client's Address:		
Chefft 5 Address.		
Value of the Contract in equivalent CAD	\$:	
Substation <i>\$12,467,812</i>		
Transmission Line \$50,758,441		
Schedule:		
1. Date of Award: August 2009		
	he Contract on the date of award: June 2010	
·	December 18, 2010 (as negotiated due to weather impacts)	
Description of the Work Performed:		
The Kearl Project consisted of a 240kV:72kV substation and approximately 39 km of 240kV transmission line, fiber optic and shield wire terminating at the Kearl Oil Sands main plant site. The transmission line contract involved right-of-way clearing, assembly and installation of 69 concrete foundations and steel monopoles ranging from 105′ – 180′. The remainder of the line consisted of 145 wood pole H-frame structures. The foundation component of the contract was EPC (Engineer, Procure and Construct).		
Please see attached detailed Project Sur	mmary sheet for more information on the project.	



KEARL OILSANDS PROGRAM

Fort McKay, Alberta August 2009 – December 2010

Owner: Imperial Oil Ventures Limited (IOVL) Contact: Mike Bilotta (Fluor) 403-537-4793 Contact: Wayne Duncan (IOVL) 403-969-6485

The Kearl Project consisted of a 240kV:72kV substation and approximately 39 km of 240kV transmission line, fiber optic and shield wire terminating at the Kearl Oil Sands main plant site.

The substation team mobilized in May 2010 and demobilized in keeping with the bid schedule of completion by December 18th, 2010. The substation construction involved installation of ground grid, all steel structure and gantry installations, transformer installation, 240kV and 72kV gas insulated switchgear (GIS), building installation, cable and fiber installations,



terminations and splicing, and some testing & commissioning.



The transmission line contract involved right-of-way clearing, assembly and installation of 69 concrete foundations and steel monopoles ranging from 105′ – 180′. The remainder of the line consisted of 145 wood pole H-frame structures.

The foundation component of the contract was EPC (Engineer, Procure and Construct).





The foundation utilized approximately 4,320 m³ of concrete while the transmission portion included some procurement and construction. The transmission line start date was August 2009 with final transmission construction ending mid-August 2009. Final commissioning and energization took place on December 18th, 2010.

SCHEDULE PERFORMANCE

The transmission line contract was extended approximately 180 days due to material availability.

COST PERFORMANCE / BUDGET MANAGEMENT

Substation:

The contract was delivered on a Cost-Plus basis.

The initial contract was awarded at \$6,109,019

The final value was \$12,467,812

There were no claims issued by Valard Construction; all change orders were initiated by the client.

There were approximately sixteen (16) change orders issued. Direct costs have been reimbursed; negotiations ongoing with respect to indirect charges.

Transmission Line:

The contract originated at \$31,451,824

The value was finalized at \$50,758,441

There were approximately 40 change orders items with the majority issues by Valard. Change Orders were issued for standard out of scope items and delays; all issues were amicably resolved.

Valard did not act as *Constructor* on this project

FORM 1.1 - APPLICANT EXPERIENCE (Use one sheet for each contract)

Name of Applicant: VALARD CONSTRUCTION							
Name of Contract: NORTHWEST BC TRANSMISSION LINE (NTL)							
Number of Contract:							
Country and Location: NORTHERN BRITISH COLUMBIA BC							
Contract Role:							
☐ Prime ☐ Lead Partner ☐ Partner in ☐ Subcontractor ☐ Subcontractor							
Name of Client (or Prime Contractor if Contract Role was as Subcontractor):							
BC HYDRO							
Client's Representative:							
1. Name: Neil McNeill							
2. Title:							
 Telephone No. 1-604-528-3044 Email Address: 							
Client's Address: 13 th Floor							
6911 Southpoint Drive							
Burnaby, BC V3N 4X8							
Value of the Contract in equivalent CAD\$: \$170,630,000 (i.e. \$170M)							
Schedule:							
1. Date of Award: July 2011							
2. Date of Completion as specified in the Contract on the date of award: July 2013							
3. Actual Date of Completion: Target completion Dec 2013 (negotiated delay due to Owner-managed clearing works)							
Description of the Work Performed:							
Engineer Procure Construct contract for 250km single sircuit double bundled 297kV							
Engineer, Procure, Construct contract for 350km single circuit, double bundled 287kV transmission line in Northern BC; from the Skeena Substation (near Terrace, BC) to a new							
substation near Bob Quinn Lake.							
Lattice steel guyed-y towers used 1590ACSR conductor							
Construction of 4 personnel camps and material laydown areas as well as 2 equipment							
maintenance facilities							

FORM 1.1 - APPLICANT EXPERIENCE (Use one sheet for each contract)

Name of Applicant:	VALARI	O CONSTRUCTION				
Name of Contract:	SUNC	OR FIREBAG III				
Number of Contract	:					
Country and Locatio	n: Fort Mo	Murray, Alberta				
Contract Role:						
Prime Contractor	Lead Partner in Joint Venture	Partner in Joint Venture	Subcontractor			
Name of Client (or P	Name of Client (or Prime Contractor if Contract Role was as Subcontractor): Washington Group North					
Client's Representat	ive:					
1. Name:	Mike Buzan					
2. Title:						
 Telephone N Email Addres 	o. <i>(780) 588-1714</i> s:					
Client's Address:	Edmonton, Alberto	а				
Value of the Contract in equivalent CAD\$: \$11,600,000						
Schedule:						
1. Date of Award:	April 2008					
•	•		te of award: Q1 2009			
3. Actual Date of Co	ompletion: <i>Marc</i>	ch 2010 (contract placed	on hold for a year by Owner)			

Description of the Work Performed:

Construction of foundations for substations and construction of 50km of 144kV transmission lines. The transmission line was constructed in swampy muskeg conditions for the entire line route.

The foundation portion of the project was to construct foundations for five (5) 240kV:144kV substations and three (3) 144kV transmission lines. Foundations included transformer pads as well as structure foundations. Transmission line foundations were constructed for the installation of steel monopoles. Foundation construction commenced in the spring of 2008 and was completed by January 2009. The largest foundation measured 9.5m x 13.5m with multiple pours.

The foundations were delivered under a Procure & Construct contract while the transmission was solely construction



SUNCOR FIREBAG

PHASE 3 – TRANSMISSION / SUBSTATION PROGRAM April 2008 – March 2010

Subcontract to Washington Group North Contact: Mike Buzan (780) 588-1714

This project was at the Suncor Firebag site and the client was Washington Group North.

SUBSTATION SCOPE OF WORK

The foundation portion of the project was to construct foundations for five (5) 240kV:144kV substations and three (3) 144kV transmission lines. Foundations included transformer pads as well as structure foundations. Transmission line foundations were constructed for the installation of steel monopoles. Foundation construction commenced in the spring of 2008 and was completed by January



2009. The largest foundation measured 9.5m x 13.5m with multiple pours.

The foundations were delivered under a Procure & Construct contract while the transmission was solely construction.



The photos depict transformer pad construction as well as bus structures and monopole foundations. Some foundations were constructed in the summer months in muskeg utilizing temporary road access.











SCHEDULE PERFORMANCE

The original contract award schedule spanned two years and was driven entirely by the Owner.

Valard mobilized and began construction within a timely manner however upon completion of foundation construction, Suncor placed the project on-hold for a period of approximately one year (365 days). Once the work was able to resume, transmission line construction was completed and the transmission line facilities were delivered within the agreed-upon timeline of three (3) months.

COST PERFORMANCE / BUDGET MANAGEMENT

Foundations:

The initial contract was awarded at \$11,600,000 The final value was \$11,351,516

Transmission Lines:

The initial award for the transmission contract was \$4,732,448 The final value was \$5,776,787

There were approximately 5 change orders on the project at the request of the client; none by Valard.

Valard did not act as *Constructor* on this project.

FORM 1.1 - APPLICANT EXPERIENCE (Use one sheet for each contract)

Name of Applicant:	VALARD CONSTRU	JCTION LP
Name of Contract:	VICTOR MI	INE
Number of Contract:		
Country and Location:	Northern Ontario James Bay Lowlan	ds
Contract Role:		
Prime Contractor	Lead Partner Partner in Joint Venture Joint Venture	ure Subcontractor
Name of Client (or Prim	ne Contractor if Contract Role wa	as as Subcontractor):
	DeBeers Canada Ir	ıc.
	: Tony Copland Manager Engineering 905-829-5399 ext. 2351	
Value of the Contract in		00 (i.e. \$95M)
Schedule: 1. Date of Award:	2005 as specified in the Contract on t	, ,
Description of the Wor		
across northern Ontar	_	t project for a 115kV transmission line Beers Victor Mine Site on James Bay as.
Bay Coast with mobilize CN-414 for expediting	ation and support by rail, barge,	he entire line was built along the James and air. The project included dedicated ll as construction of public-use ice road ighway system.
This project included 24	100 single pole structures, 3 river	crossings,

Valard was responsible for planning and scheduling, preliminary design, supplier and subcontractor selection, surveying and geotechnical, final design of transmission and substations, procurement, right-of-way clearing, construction, and commissioning. As part of the construction of the transmission line, Valard was responsible for providing camp accommodation for construction crews. Valard placed a full time Environmental Coordinator and Health and Safety Officer on the Project.

Please see the attached detailed Project Summary sheet for further details on the project



VICTOR MINE

Northern Ontario 2005 - 2008

Owner: DeBeers Canada Inc.

Contact: Tony Copland, Manager Engineering

905-829-5399 ext2351

This contract was an Engineer, Procure, and Construct project for a 115kV transmission line across northern Ontario from Otter Rapids to the De Beers Victor Mine Site on James Bay lowlands. The scope also included 3 115kV substations.

The project involved substantial logistical challenges; the entire line was built along the James Bay Coast with mobilization and support by rail, barge, and air. The project included dedicated CN-414 for expediting support and crew moves, as well as construction of public-use ice road linking isolated Northern communities to the Ontario highway system.

This project included 2400 single pole structures, 3 river crossings,

Valard was responsible for planning and scheduling, preliminary design, supplier and subcontractor selection, surveying and geotechnical, final design of transmission and substations, procurement, right-of-way clearing, construction, and commissioning. As part of the construction of the transmission line, Valard was responsible for providing camp accommodation for construction crews. Valard placed a full time Environmental Coordinator and Health and Safety Officer on the Project



SCHEDULE PERFORMANCE

Contract start date = 2005 Requested completion = 2007 Actual completion date = 2008

There was a schedule delay of approximately 365 days (one year) due to a road blockage by the First Nations community.

COST PERFORMANCE / BUDGET MANAGEMENT

The project was a lump sum contract initiated at \$88M

The final contract price was \$95M which included change orders for delays and other client-initiated changes.

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Project Quality Plan:		Originato	or:	Approved:	

Valard Construction Ltd. Quality Program Project Quality Plan

Transmission

Document Number: VCLP-02-7000-0-00 Revision 1

Originated	a:		
	Project Manager	Date	Signature
Reviewed	d:		
		Date	Signature
Reviewed	d:		
		Date	Signature
Approved	d:		
		Date	Signature

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Project Quality Plan:		Originato	r:	Approved:

Revisions

No.	Date	Originator	Originating Document	Change	Approved



Quality Program

Document Number: VCLP-02-7000-0-00

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Originator: Approved:

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Definitions

The following definitions shall be used in the interpretation of this manual and all referenced subdocuments:

- **Client** Any entity with which Valard Construction Ltd. holds a contract for the provision of products and/or services.
- Constructed Works The structures, devices and/or installations specified for construction in the scope of a Contract.
- **Contract** Governing agreement between the Client and Valard Construction Ltd. for the provision of services associated with a Project.
- **Directive** Instruction to responsible parties.
- **Distribution Register** Register maintained by the Quality Program Documents Administrator listing all recipients of controlled copies of the Quality Manual.
- Document See 'Quality Program Document'.
- **Engineer** To be interpreted as per the definition provided by the Engineering Professional Association in the jurisdiction where a product or service is provided, completed, purchased, negotiated or constructed.
- **Engineering Services** Any services governed by an Engineering Professional Association in the jurisdiction where a product or service is provided, completed, purchased, negotiated or constructed.
- Engineering Consultant Individual or entity subcontracted to provide Engineering Services to Valard Construction Ltd.
- Form Quality Program Document provided for the purpose of gathering data.
- Hold Point Juncture in a work Process at which work must not be continued until the specified inspections and/or signoffs are completed.
- **ITP** Inspection and Test Plan
- Operational Controls Documentation and devices employed in the assurance of Quality at the construction stage of a Project.
- Originator Individual assigned the responsibility of establishing a Quality Program Document.
- Owner Individual assigned the responsibility of revising a Quality Program Document.
- **Procedure** Quality Program Document consisting of a verbal narrative of the manner in which a task is to be completed.
- **Program** See 'Quality Program'.



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- Project Any undertaking of Valard Construction Ltd. under a Contract with a Client.
- **Project Engineer** The individual or entity charged with the provision of Engineering Services.
- **Project Quality Plan** Quality plan enacted to ensure the quality of products and services associated with a single contract or portion thereof.
- **Quality** All features of a product or service that is required by the Client.
- Quality Manual Refers to this manual.
- Quality Plan See 'Project Quality Plan'
- **Quality Program** Refers to the documentation procedure governed by this Quality Manual and any documents referred to hereby.
- Quality Program Document Any document, inclusive of the Quality Manual, that is listed in the Document Register maintained by the Quality Program Documents Administrator.
- **Quality Record** The sum total of all documentation collected in the completion of a Project Quality Plan.
- Register Quality Program Document summarizing information that is vital to the implementation of the Quality Program and/or a Project Quality Plan.
- Role Position or title specified in a Quality Program Document.
- **Supervisor** Describes any individual engaged in the supervision of work and / or any individual listed in the Supervisory Qualification Registry.
- VCL Valard Construction Ltd.

0 Introduction

0.1 Goals of the Project Quality Plan

The stated goal of this Project Quality Plan is to establish a framework for the control and assurance of the Quality of (a) work completed by the Subcontractor, (b) materials supplied by Valard Construction, and (c) materials supplied by the client. This Preliminary Project Quality Plan is preliminary and has been composed for the purpose of proposing an implementation strategy for the Subcontractor's responsibilities on The 240 kV Transmission Line; this strategy has also been composed for the purpose of identifying the subcontractor's ability to conform to clients's Inspection and Testing Plan. The client is invited to review this PQP for the purpose of identifying any discrepancies or inconsistencies, following which the PQP will be revised to better reflect the requirements of the Contract.

0.2 Form of Project Quality Plan

This document is divided into four primary sections:

- Management & Administration: In addition to providing an overview of the proposed project management structure, this section will summarize the role assignments and assumed responsibilities associated with each role.
- Records: This section will overview the manner in which records will be gathered, preserved, and distributed over the course of project completion.
- 3) Materials: This section will summarize all materials to be supplied by the by the Prime Contractor and/or the Subcontractor under the terms of the Contract; it will also specify the proposed methods of Quality Control associated with each material category.
- 4) General Work Activities: This section will examine Quality Control over broad topics affecting several or all work activities (i.e. supervision, certifications, etc.)
- 5) Specific Work Activities: This section will specifically address the work activities for The 240 kV Transmission Line

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1 Management & Administration

1.1 Project Management Structure

The general form of the Project management structure (as it pertains to Quality) is illustrated below:

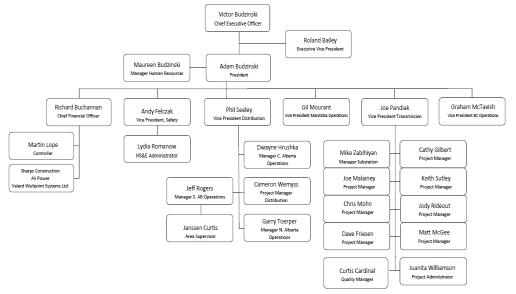


Fig. 01 Project Management Structure Diagram

The primary observable features of this structure are as follows:

- The Quality Manager answers directly to the President.
- Quality Coordinators report to the Quality Manager.
- Trade Supervisors and Project Coordinators are monitored by Quality Coordinators on behalf of the Quality Manager.

1.2 Role Assignments

The following chart will be completed to summarize some of the key personnel to be employed in the completion of the Project. Only personnel having responsibilities specified in the PQP are to be listed. The names of those personnel having key managerial roles are presently listed for the purpose of proposal.

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The role assignments chart will continue to be updated as personnel are added to and/or removed from the Project.

Role	Name	E-mail	Phone	Initial	QM Initial
Project					
Manager					
Quality					
Manager					
Lead Quality					
Coordinator					
Quality					
Coordinator					
	(Several				
Supervisor	Assigned)				

1.3 Qualifications

All personnel employed in the administration of the Project Quality Plan shall possess the necessary skills and be qualified for the completion of their assigned responsibilities.

1.4 Responsibilities

It should be observed that the following responsibility summaries are not exhaustive, and describe the responsibilities associated with the roles in question only as they relate to the Project Quality Plan.

1.4.1 Responsibilities of the President

The responsibilities of the President as they relate to Quality are as described under heading 1.2.1 of the Quality Manual.

1.4.2 Responsibilities of the Project Manager

The responsibilities of the Project Manager are as follows:

- To ensure that supervisors and trade foremen are of adequate training and/or experience to complete the production-related tasks assigned to them
- To enforce the authority of the Quality Manager and appointed project Quality Coordinators
- To address the concerns of the client with respect to Quality issues
- To ensure that supervisors and trade foremen are completing their responsibilities in accordance with the Project Quality Plan

1.4.3 Responsibilities of the Quality Manager

The responsibilities of the Quality Manager as they relate to Quality are as described under heading 1.2.2 of the Quality Manual.

1.4.4 Responsibilities – Project Coordinators

The responsibilities of Project Coordinators with regard to a given Project Quality Plan are as follows:

- Project Coordinators shall accept the delegation of any of the Project Manager's responsibilities at the written request of the Project Manager.
- Project Coordinators shall work with subcontractor personnel at the planning stage to ensure they are informed of any and all Quality requirements of the Project as they relate to the subcontractor's work.
- Project Coordinators shall enforce the authority of the Quality Coordinator with respect to the administration of the Project Quality Plan

1.4.5 Responsibilities – Quality Coordinators

The responsibilities of Quality Coordinators are as follows:

- The Quality Coordinator shall prepare the Project Quality Plan in accordance with the Quality Manual.
- The Quality Coordinator shall interface with the Project Manager to collect any required information for the completion of the Quality Plan.
- The Quality Coordinator shall interface with trade supervisors and foremen to collect any required information for the completion of the Quality Plan.
- The Quality Coordinator shall interface with subcontractor trade supervisors and foremen to collect any required information for the completion of the Quality Plan.
- The Quality Coordinator shall be responsible for review of the Quality Plan to ensure that all items listed in the 'Controls' columns of the Quality Plan components listed under heading 3.1 are further referenced in the plan narrative. In the event that these items are not referenced in the narrative, the Quality Coordinator shall request a review of the Quality Manual and Project Quality Plan template to satisfy the requirements of the Project.
- The Quality Coordinator shall submit the Project Quality Plan to the Client in accordance with the requirements of the Contract, or in accordance with any further agreements made with the Client.
- The Quality Coordinator shall collect all required documentation associated with the purchase of materials and products for the Project from employees charged with receiving such materials and products; this work is completed for inclusion in the Quality Record.
- The Quality Coordinator shall collect inspection forms and reports generated at the time of installation from foremen and trades people for the purpose of inclusion in the completed Quality Record.
- The Quality Coordinator shall compile all relevant Quality documentation for inclusion in the completed Quality Record.
- At project kick-off, the Quality Coordinator shall be responsible for explaining the Quality-related responsibilities of all trade-level employees and subcontractors (Supervisors, Foremen, Trades people, and Labourers) – as well as specifying his/her own role – to the project Foremen and Supervisors.

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 The Quality Coordinator shall perform periodic audits for the purpose of confirming that all personnel are completing their work in accordance with the PQP.

1.4.6 Responsibilities – Engineering Manager

(Omitted)

1.4.7 Responsibilities – Design Lead

(Omitted)

1.4.8 Responsibilities – Design Engineers

(Omitted)

1.4.9 Responsibilities – Supervisors

The responsibilities assigned to Supervisors are as follows (responsibilities are common for both employed and subcontract supervisors):

- The Supervisor shall ensure that all trade-level employees are in possession of sufficient training and experience to complete their assigned tasks.
- The Supervisor shall enforce the authority of the Quality Coordinator as it relates to the direction of the completion and collection of Quality-related documents.
- The Supervisor shall ensure that trades people are supplied with those resources required to complete their work in accordance with the design requirements of the project, as well those required to observe and collect data pertaining to the Quality of the works constructed.

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1.4.10 Responsibilities – Foremen

The responsibilities assigned to foremen are as follows:

- The Foreman shall supervise the completion of work to ensure that it is completed in accordance with the requirements of the Project design drawings.
- The Foreman shall ensure that works constructed are built only in observance of drawings marked 'Issued for Construction.'
- The Foreman shall ensure that records of works installed are completed by those individuals completing the work, and that such records are completed at the time of installation or assembly.
- Where required by Installation Records, the Foreman shall perform a secondary inspection of works completed and sign for such inspection.
- The Foreman shall direct trades people and labourers working under their supervision as to their Quality-related responsibilities in accordance with this document.

1.4.11 Responsibilities – Trades people (Not specified in management structure)

Trades people shall complete all Quality Records specified by the Project Quality Plan and associated with their work at the time of installation, assembly, or testing, as the case in particular requires.

1.4.12 Responsibilities - Labourers (Not specified in management structure)

Labourers shall complete all Quality Records specified by the Project Quality Plan and associated with their work at the time of installation, assembly, or testing, as the case in particular requires.

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2 Quality Record

'Quality Record' refers to the complete body of Quality-related documentation collected over the course of project completion. This section provides a narrative of the manner in which the constituent documents will be collected, preserved and distributed.

2.1 Valard Construction's Inspection and Test Plan

Valard Construction will generate a complete Inspection and Test Plan (ITP). The Quality Record consists essentially of the body of documentation described in the ITP.

Regarding all forms associated with the Quality Record and/or the ITP, Valard proposes, the following measures should be taken to expedite the collection, and distribution of Quality related documentation:

- All forms should be revised to ensure that they can be presented in their entirety on a single page (can be accomplished through the use of smaller fonts and/or legal-sized documents).
- All forms should be printed and made available in triplicate carbon paper form; alternately, Valard Construction will make electronic copies of the Forms specified in the ITP available for the purpose of its advance preparation of site-specific Quality Forms.

All ITP's shall be submitted for acceptance by the client and if required by the client, prior to any work commencing. ITP's shall be submitted at least 7 (seven) days prior to the proposed work commencement date, to allow for review and input from all parties.

2.2 Reporting Summary

Valard will generate a Reporting Summary consisting of a complete list of all completed and/or partially completed forms to be submitted to the Prime Contractor over the course of the Project. These forms shall be available, at all times, for review by the Prime Contractor's Quality assurance staff. Explicitly, this Summary shall consist of the following:

- A summary of all Quality Related Forms to be collected in relation to material receiving and inspection;
- A summary of all Quality Related Forms to be collected for each individual structure (inclusive of foundation) to be installed in awarded sections

In addition, the summary of structure-related Quality forms will also account for and reference secondary Quality forms such as concrete delivery tickets, third party concrete strength testing reports, laboratory sieve test results, and any other documentation.

 A summary of all Quality Forms relating to conductor and hardware installation.

2.2.1 Subcontractor Generated Quality Forms

In all cases, where the PQP specifies a Form, the Forms shall be generated in accordance with the requirements of the PQP. Each type of Form will be assigned a document number, in addition to a system of serial numbers whereby the Forms can be traced.

Subcontractor Quality Forms may be generated for the internal purposes of the Subcontractor with respect to Quality or may be generated for the purpose of satisfying elements of the specification that relate to Quality.

2.2.2 The Quality Record

'Quality Record' describes the complete set of Quality-related documentation that will be:

- 1. Assembled by the Subcontractor for the purpose of satisfying its internal requirements with respect to Quality.
- 2. Submitted to the Prime Contractor for the purpose of documenting the Quality of works constructed in association with the Contract.

The Reporting Summary represents a table of contents for the Quality Record. The expectation is that at Project completion, all Forms outlined in the Reporting Summary will be present in the Quality Record.

In addition to those elements specified in the reporting summary, the Quality Record will include documentation of other elements of the Quality Program (i.e. Nonconformity Reports, Audit Documentation Forms, etc.); these elements are referenced throughout the PQP, and will be compiled at the time of generation of the Reporting Summary.

2.2.3 Completeness of Record

The completed Reporting Summary shall form a benchmark for the performance of the Subcontractor with respect to Quality over the course of the Project. A complete Quality Record corresponding exactly to the Reporting Summary (along with any amendments thereto made over the course of the Project) shall be deemed to accurately represent the Quality of all works constructed by the Subcontractor.

2.3 Procedures for the Completion of Quality Documentation

This section shall establish procedures for the completion of each type of Quality Form listed in Valard's ITP, in addition to Quality Documentation deemed to be necessary by the Subcontractor and completed in addition to the requirements of the ITP. These procedures consist of a crossfunctional procedural flowchart for each Quality form, along with a short narrative. The Procedures are divided into the same groups of forms described under Section 2.2 of this document.

It should be noted that for all forms - where the form has been completed and indicated for inclusion in the Quality Record - it is the

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Subcontractor's preference that it first be submitted to the Subcontractor's Project office for the purpose of copying and filing prior to submission to the Prime Contractor.

2.3.1 Forms Pertaining to Material Receiving and Inspection

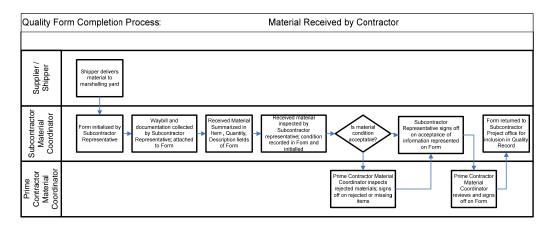
In general the following will apply for Quality forms pertaining to material receiving and inspection:

- Quality forms pertaining to borrow pits and earthworks materials will be initialized by the Project Manager and/or Project Coordinators at Project startup or as required over the course of the project. Borrow pit documentation will be preserved in the Project office and associated with the geographic location of the pit for the purpose of efficient access to earthworks materials.
- Quality Forms pertaining to purchased materials and products will be initialized by the Subcontractor Materials Coordinator at the time of receiving.
- 3. In all places where a Form indicates that a Subcontractor representative will notify the Prime Contractor of its intention to begin work on the right-of-way or at a structure location, it is implicit that such notice will be accomplished via the Subcontractor's schedule updates and daily verbal amendments thereto. In general, it is expected that the Prime Contractor's representatives will be working closely with the Subcontractor's Supervisors and construction Foremen, and as such will be familiar with its construction schedule. With the exception of direct requirements thereof found in the Contract, written notice specifying the completion or inspection of work at a particular location will not be provided. Submission of schedule updates on a regular basis will be deemed to be acceptable notice of the imminence of construction activities at any given location.

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2.3.1.1 Materials Received by Contractor

The following diagram illustrates the flow of information related to the completion of Materials Received by Contractor form:

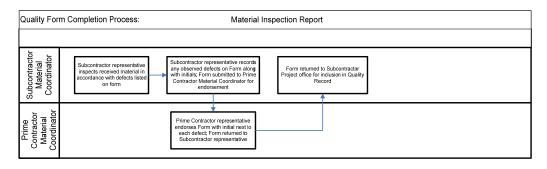


Process notes:

- Documentation collected by Sub-contractor's representative will include: mill test reports and bills of lading.
- In the event that the received condition of material is unacceptable, details of the reason for rejection of the material will be recorded in the available space on the form.
- Where the material or quantity thereof is inconsistent with the waybill, this condition will trigger the generation of a Vendor Shortage List.
- Process notes shall include welding examination and inspections for all welding completed by any supplier.
- All materials received from any supplier must be accompanied by welding reports and welding inspections substantiated quality of materials and workmanship.

2.3.1.2 Materials Inspection Report

The following diagram illustrates the flow of information related to the completion of Materials Inspection form:

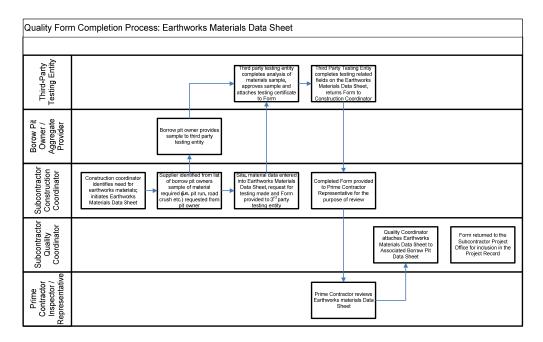


Process notes:

- Documentation collected by Subcontractor representative will include all defects, not just limited to defects specified on the Form.
- Sign established at pit will feature the following information:
 - Subcontractor name and logo
 - Contract tag and number
 - Borrow Pit Data Sheet document number
- Ultimately, as various materials are identified and approved at the borrow pit site, the associated Earthworks Materials Data Sheets will be attached to the Borrow Pit Data Sheet and made available in the Project Office.

2.3.1.3 Earthworks Material Data Sheet

The following diagram illustrates the flow of information related to the completion of the Earthworks Material Data Sheet:

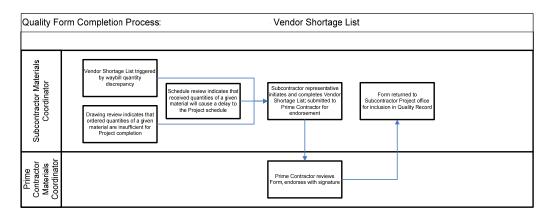


Process notes:

 As specified above, Earthworks Material Data Sheets will be attached to their respective Borrow Pit Data sheet, ultimately creating a record both of a site, as well as the properties of materials available at that site.

2.3.1.4 Vendor Shortage List

The following diagram illustrates the flow of information related to the completion of Vendor Shortage form:

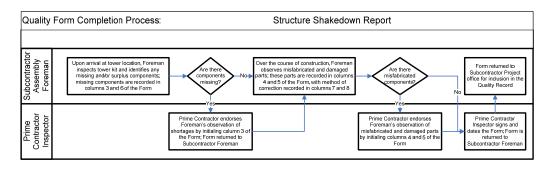


Process notes:

 Process assumes availability of Prime Contractor Representative for inspection of material and acceptance of Vendor Shortage Lists.

2.3.1.5 Structure Shakedown Report

The following diagram illustrates the flow of information related to the completion of Structure Shakedown form:



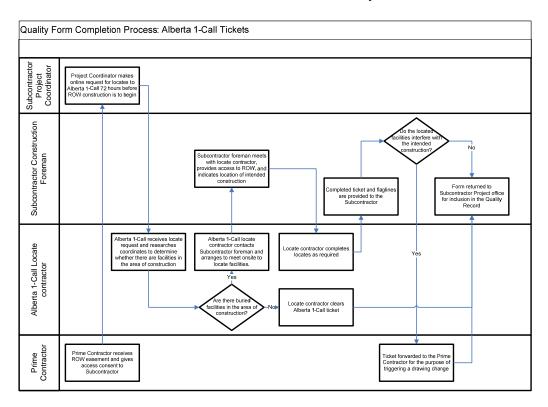
Process notes:

- Dependent upon the nature of the tower kit packaging, it may be beneficial to complete the initial survey for missing parts at the marshalling yard prior to delivery of the kit to the tower site.
- Observations of mis-fabrications are by necessity carried out over the course of construction; this is a result of the fact that many defects will be difficult or impossible to observe without actually attempting to assemble the tower.

2.3.2 Forms Pertaining to Structure Erection (Foundations)

2.3.2.1 Alberta 1-Call Tickets

Although the 1-Call Ticket is not a required element of the Prime Contractor's ITP, it will be included with the Quality Record.



Process notes:

 In the event that it has been determined that located facilities interfere with the installation of a tower foundation, construction

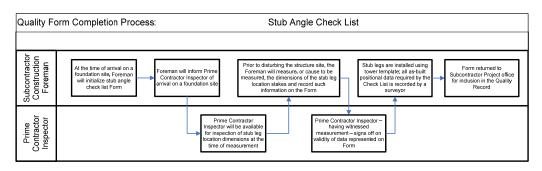
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at the tower site will be suspended pending a drawing change from the Prime Contractor.

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2.3.2.2 Stub Angle Checklist

The following diagram illustrates the flow of information related to the completion of Stub Angle Checklist form:

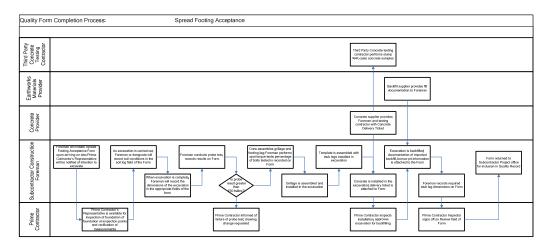


Process notes:

• (None)

2.3.2.3 Spread Footing Acceptance

The following diagram illustrates the flow of information related to the completion of Spread Footing Acceptance form:



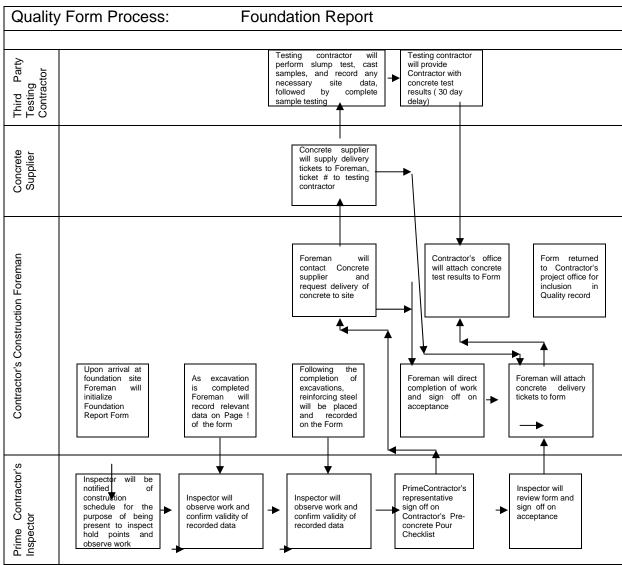
Process notes:

(None)

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2.3.2.4 Foundation Report for Structure

The following diagram illustrates the flow of information related to the completion of Foundation Report for Structure form:



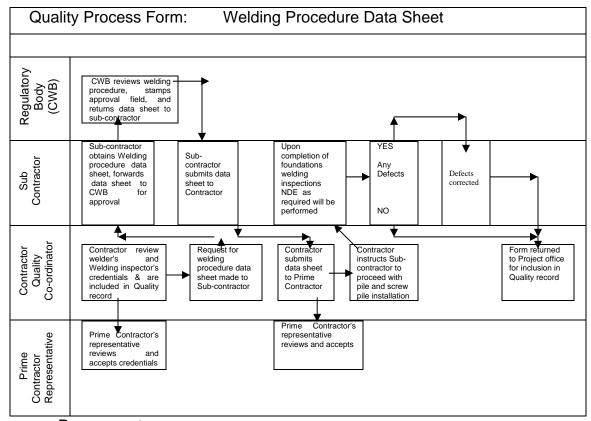
Process notes:

None

2.3.2.5 Welding Procedure Data Sheet

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The following diagram illustrates the flow of information related to the completion of the Welding Procedure Data Sheet:

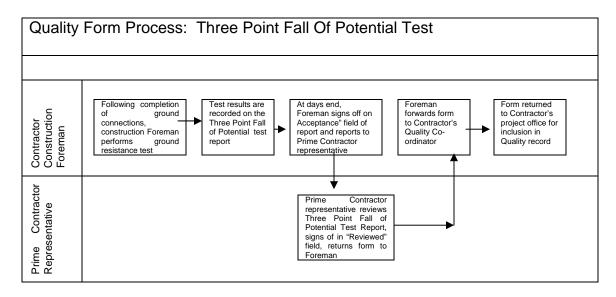


Process notes:

Following completion of the Welding Procedure Data Sheet, it will be made readily available in the Project office

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2.3.2.6 Three Point Fall of Potential Test Report

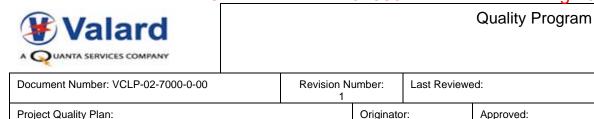


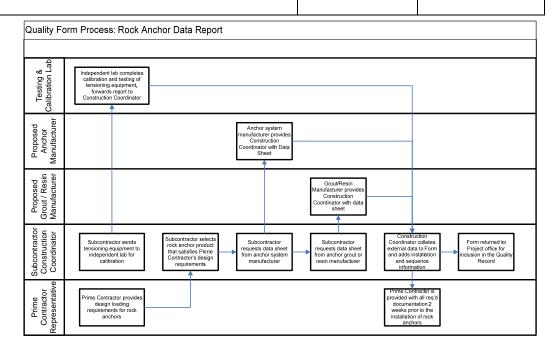
Process notes:

- Forms are to be completed and submitted on a daily basis.
- It is assumed that the Prime Contractor Representative will be available to provide supervision or spot-checks of testing process throughout the day for the purpose of confirming the validity of test results prior to signing the 'Reviewed field of the Form.

2.3.2.7 Rock Anchor Data Report

The following diagram illustrates the flow of information related to the completion of the Rock Anchor Data Report:



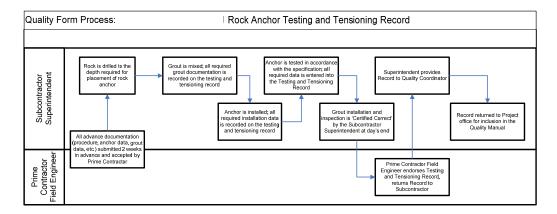


Process notes:

- Data report will consist essentially of a checklist indicating each piece of external documentation to be collected; these are to be collated to the report sheet when they are collected.
- Following submission of Rock Anchor Data Reports, they will be made available in the Project office for reference and/or inclusion subsequent Daily Rock Anchor Testing and Tensioning Reports.

2.3.2.8 Subcontractor's Daily Rock Anchor Testing and Tensioning Report

The following diagram illustrates the flow of information related to the completion of Rock Anchor form:

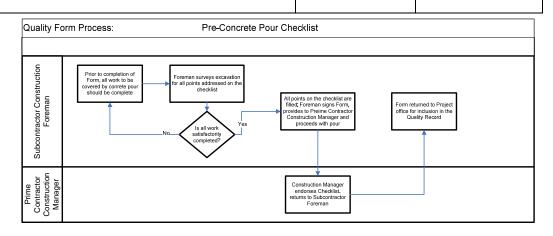


Process notes:

 ITP calls for only for testing of one anchor per day or every tenth anchor. The procedure outlined above applies only to those anchors specified for testing.

2.3.2.9 Pre-Concrete Pour Checklist

The following diagram illustrates the flow of information related to the completion of Pre-Concrete Pour Checklist form:

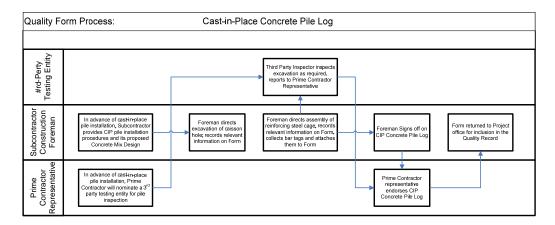


Process notes:

 All checklist points are to be evaluated in accordance with the specification.

2.3.2.10 Cast-in Place Concrete Pile Log

The following diagram illustrates the flow of information related to the completion of Cast-in-Place Concrete Pile form:

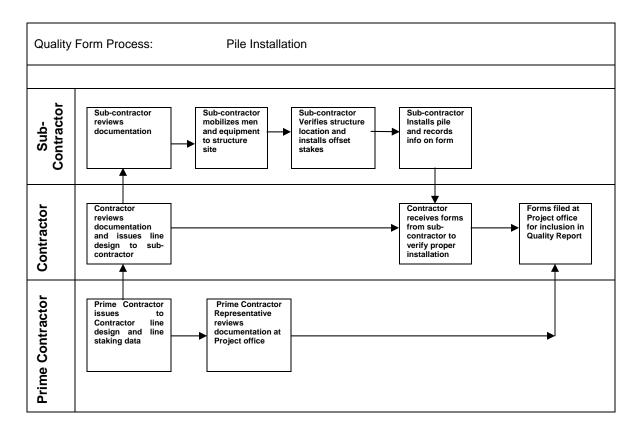


Process notes:

- 'Reinforcing Steel' field should be used to indicate the placement drawing number; bar tags taken from the reinforcing steel at the time of placement should be collected.
- Cast-in-place pile installation procedures will be provided to the Prime Contractor Two weeks in advance of installation of the first pile installed on the Project; this shall be deemed to be acceptable documentation of procedures for the entirety of CIP piles installed on the Project.
- It is expected that the Prime Contractor will nominate a single 3rd party testing entity at Project kick-off, and that this group will be available for efficient inspection of excavations as they come available.

2.3.2.11 Pile Installation

The following diagram illustrates the flow of information related to the completion of Cast-in-Place Concrete Pile form:



Process notes:

none

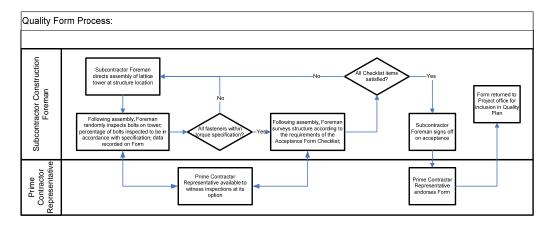
2.3.3 Forms Pertaining to Structure Erection

2.3.3.1 Structure Shake Down Report

• Note: The process associated with Structure Shakedown Report is included under Heading 2.3.1.5.

2.3.3.2 Tower Assembly Acceptance

The following diagram illustrates the flow of information related to the completion of Tower Assembly form:

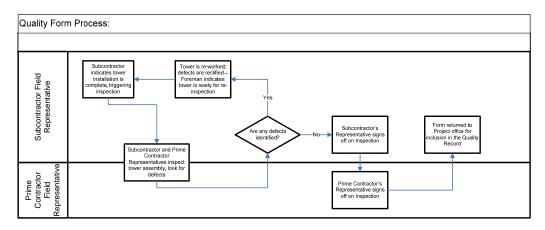


Process notes:

• (None)

2.3.3.3 Structure Assembly and Installation Inspection Report

The following diagram illustrates the flow of information related to the completion of Structure Assembly and Installation Inspection form:



Process notes:

 For the purpose of efficiency, the Subcontractor prefers that inspections should be completed immediately following tower erection.

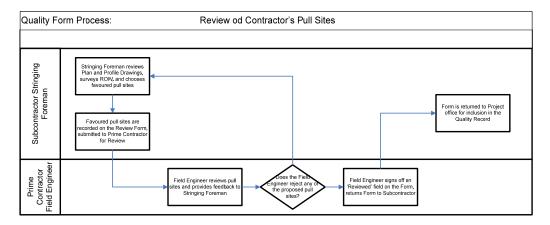
2.3.4 Forms Pertaining to Access and ROW issues

Note that in addition to the Form specified below, general ROW cleanup and conditioning is referenced in Tower Assembly Acceptance Form.

2.3.5 Forms Pertaining to Conductor Installation

2.3.5.1 Review of Contractor's Pull Sites

The following diagram illustrates the flow of information related to the completion of Pull Sites form:

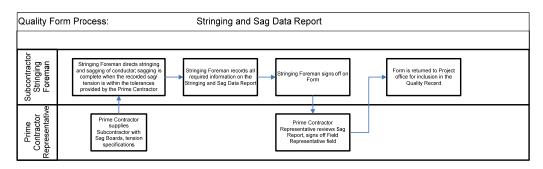


Process notes:

- It is expected that reviews of pull sites may be submitted and reviewed for discrete sections of line; this will be necessary for efficient execution of stringing work.
- Typically, pull sites will be chosen for the suitability of the ground and geography with respect to anchoring, accessibility for heavy stringing equipment, and to minimize wasted conductor.

2.3.5.2 Stringing and Sag Data Report

The following diagram illustrates the flow of information related to the completion of Stringing and Sag Data form:

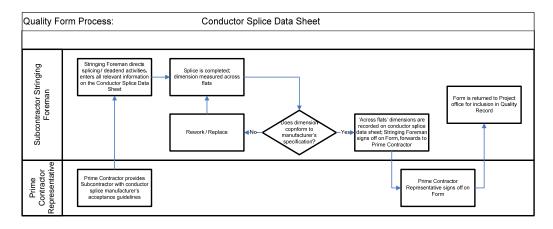


Process notes:

• (None)

2.3.5.3 Conductor Splice Data Sheet

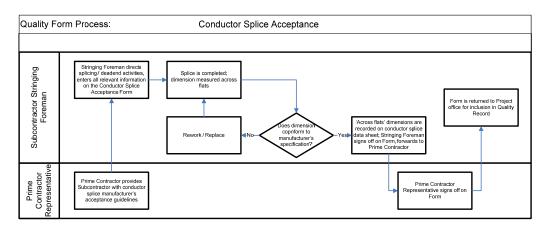
The following diagram illustrates the flow of information related to the completion of form:



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2.3.5.4 Conductor Splice Acceptance

The following diagram illustrates the flow of information related to the completion of Conductor Splice form:

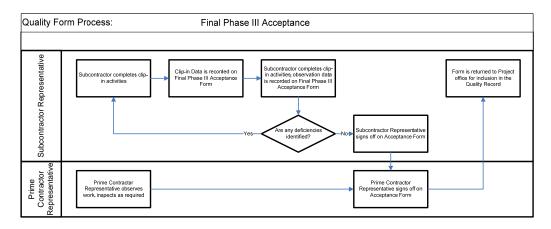


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2.3.5.5 Final Phase III Acceptance

The following diagram illustrates the flow of information related to the completion of form:



Process notes:

• (None)

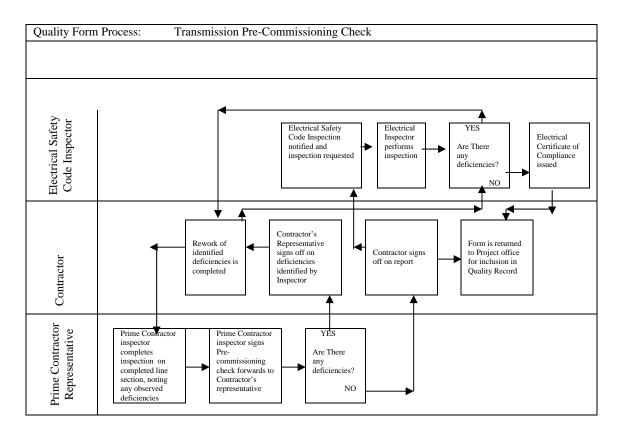
2.3.6 Forms Pertaining to Final Inspection and Commissioning

2.3.6.1 Ground Clearance Report

Note: This Form and the associated inspection will be completed by Valard Construction. These Forms will be submitted to the Prime Contractor for inclusion in the Quality Record.

2.3.6.2 Transmission Pre-Commissioning Check

The following diagram illustrates the flow of information related to the completion of Pre-Commission Check form:



Process notes:

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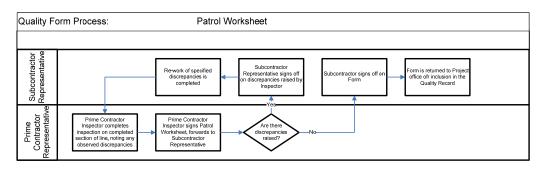
 Subcontractor Representative's acceptance of Inspector's specified discrepancies will be subject to evaluation and inspection of discrepancy.

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2.3.6.3 Patrol Worksheet

The following diagram illustrates the flow of information related to the completion of Patrol Worksheet form:



Process notes:

• (None)

2.4 Collection of Quality Documentation

In all cases the collection of forms and additional documentation will proceed as follows:

- 1. The Form will be initialized by the Foreman, Supervisor, or coordinator directing the work.
- 2. All qualitative Form fields (i.e. checklist-style documentation) will be completed:
 - a. In the field
 - b. At the time of work completion
 - c. By the tradesperson completing or directly supervising the work
- 3. All quantitative Form fields will be completed:
 - a. In the field
 - b. At the time of work completion
 - c. By the Foreman or Supervisor directing the work
 - d. Only by Foreman or Supervisor having personally performed the measurements represented or having directly observed the measuring process.
 - e. Documentation will be presented to the Prime Contractor's representative for review and/or endorsement (as required by the Prime Contractor's ITP) following which it is to be returned to the Foreman or Supervisor responsible for the work.
 - f. The Foreman or Supervisor will submit the Quality Form to the designated Quality Coordinator; the Quality Coordinator will be responsible for control and distribution of Quality Documentation.
 - 4. All documentation shall be maintained by Valard Construction in a proper filing system. The Prime Contractor's Quality Staff shall be granted access to these files for the purpose of review.

2.5 Control of Quality Documentation

The Quality Record shall be collected and maintained in the Subcontractor's Project office. The following process will apply to its control:

- 1. Upon submission of a Quality document, it will be listed as complete in the Reporting Summary.
- 2. The Form will be stored in hardcopy at the Subcontractor's Project office.
- 3. The Form will be scanned and stored electronically on the Subcontractor's remote server.

2.6 Distribution of Quality Documentation

The following process is proposed to satisfy all elements of the Quality Plan:

- e. All original documents shall be maintained by Valard Construction and shall be included in the turn over of documents at project completion.
- g. The form will be copied in triplicate.
- h. One copy of the Form will be entered into the Quality Record.
- One copy of the Form will be forwarded to the Project Manager or a designated coordinator for the purpose of tracking progress.

3 Materials

Quality control with respect to materials is to be administered under two primary headings:

- 1. Materials Supplied by the Prime Contractor
- 2. Materials Supplied by the Subcontractor

3.1 Materials Supplied by the Prime Contractor

With respect to materials supplied by the Prime Contractor, the goals of the PQP are as follows:

- 1. To confirm the quantity and condition of material received from the Prime Contractor's suppliers
- 2. To confirm the conformity of received material to its type design
- 3. To quantitatively record deviations of the lattice tower materials from their type design for the purpose of calculating changes to the Contract

To the end of achieving the above, the following controls are to be implemented:

- 1. Visual Inspections
- 2. Quantity Checks
- 3. Vendor Shortage Reporting
- 4. Nonconforming Material Quarantine

3.1.1 Visual Inspections

Visual inspections will be conducted on all material received by the Subcontractor on behalf of the Prime Contractor at the time of receiving in the marshalling yard.

Visual inspections will be documented and will be subject to review and confirmation by the Prime Contractor's Materials Coordinator.

3.1.2 Quantity Checks

Quantity checks will be documented and will be subject to review and confirmation by the Prime Contractor's Materials Coordinator.

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Shortages that become apparent as a result of quantity checks will trigger the generation of a Vendor Shortage List (see following section).

Quantity checks specifically addressing component checks for missing and misfabricated components of the steel lattice tower kits will be documented.

3.1.3 Vendor Shortage Reporting

Vendor shortages will be documented.

3.1.4 Quarantine

Upon taking possession of the respective marshalling yard, the Contractor will identify an area of the yard to be reserved for quarantined parts. This area will be clearly marked and segregated from the remainder of the yard by ropes or tape.

Upon identification of substandard, damaged, or broken parts or components, such components shall be clearly marked with a tag bearing the following information:

- Large bold notice: NONCONFORMING PART
- Discrepancy: Description of the identified problem with the part
- Supplier: Name of supplier
- Date: Date nonconformity was identified
- Initial: Initial of individual taking part out of circulation

Once parts have been deposited in the Quarantine area, tags will not be necessary.

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3.2 Materials Supplied by the Subcontractor

With respect to materials supplied by the Subcontractor, the goals of the PQP are as follows:

- 1. To document the properties of received material for the internal requirements of the Subcontractor.
- 2. To document the properties of received material to assure the Prime Contractor of the Quality of such Material.

While the following Subcontractor-supplied materials are referenced in the ITP, no forms have been provided. As such, the Subcontractor will generate forms for the efficient tracking of these materials (Note: these forms are also referenced under headings 2.2 and 2.3):

- Borrow Pit documentation
- Road Crush
- Pit Run
- Sand
- Native Fill
- Concrete
- Reinforcing Steel
- Rock Anchors
- Grout

The information to be addressed in each of these forms is summarized in the table on the following page.

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The following chart summarizes all Subcontractor supplied materials as specified in the Contract, along with proposed Quality controls:

Subcontractor Supplied Material	Product Controls	Submission Schedule	Comments
Earthwork Materials - Borrow Pits (General)	Borrow pit information to be submitted to Prime Contractor prior to provision of earthwork materials: -Address or coordinates of borrow pits -Summary of methods of excavation, mixing, screening, and transportation -Summary of the rated capacities of equipment used for borrow pit excavation and process -Summary of unusual mixing or excavating procedures -Summary of methods in use to control moisture and drainage -Information on disposition of oversized material -Information on the disposition of unsuitable material from stripping operations Information qualifying 'road crush' as conformant to Alberta Transportation	Prior to use of borrow pit	Comments
Road Crush	Information qualifying Toac crush as conformant to Alberta Transportation Designation 4, Class 20: -Sieve analysis -Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
Pit Run	Information qualifying 'pit run' as conformant to Alberta Transportation Designation 6, Class 80: -Sieve analysis -Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
Sand	Information qualifying sand as conformant to SP-062200-4100-01 7.2.4: -Sieve analysis -Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
Native Fill	-Maximum density curve -Optimum Moisture curve	2 weeks prior to the commencement of material placement	
	-Concrete mix design, formulated in accordance with the requirements of the design drawing	2 weeks prior to the commencement of material placement	
Concrete	-Concrete Delivery Tickets conforming to CSA A23.1 Section 5.2.4.5	Immediately following placement	
	Information gathered by third-party testing contractor: -Slump test results -Air content test results -Ambient temperature at time of delivery -Compressive strength test results	Immediately following availability of results	



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Subcontractor Supplied Material	Product Controls	Submission Schedule	Comments
	Mill test reports		
	Reinforcing Steel Placing Drawings and Bar Lists		
	Bar tags featuring the following information:	Factor adda ashar	
Reinforcing	-Grade of steel	Fastened to rebar at all times	
Steel	-Mark number (as per bar list)	following delivery and prior to	
	-Rebar placing drawing number	placement.	
	-Purchase order number		
	-Shipping destination		
	Mill test reports	2 weeks prior to	
Screw	Welding Inspection Reports	the commencement	
Piles	Bill of Lading	of material placement	
	Din of Lauring	pidoomeni	
	Literature on chosen rock anchors inclusive of information on bar, centralizers, face plate, washer, and nut		
	Information on the physical and chemical properties for each lot of steel rock anchors to be used.		
	Information on the proposed method of sealing fractures and voids in drill holes to prevent loss of grout		
	Certified statement from independent testing laboratory confirming the following properties:		
	-Minimum cross-sectional area of the threaded portion of the bar		
	-Minimum cross-sectional area of the unthreaded portion of the bar	2-weeks prior to	
Rock Anchors	-Yield strength of the bar	the commencement	
	-Ultimate tensile strength of the bar	of anchor placement	
	-Name of material	,	
	-Manufacturer		
	-Graph of unconfined compressive strength versus time		
	-Gel time		
	-Viscosity		
	-Shelf life		
	-Storage and handling requirements		
	Published specification showing the following information:		
	-Name of material		
	-Manufacturer	2-weeks prior to the	
Grout	-7 & 28 day unconfined compressive strength	commencement of anchor	
	-Composition	placement	
	-Shelf life		
	-Storage and handling requirements		

3.3 Audits

This section addresses only those audits associated Quality Assurance and Control for material.

3.3.1 General

Field-level audits will be instituted for the purpose of ensuring that Quality Assurance and Control measures are being implemented in accordance with the PQP. It is intended that an audit will be completed in approximately one day.

3.3.2 Procedure

The Subcontractor will compose a complete procedure for the completion of field-level audits. This procedure will implement the following elements:

- 1. Audits will include spot checks on documentation of new material arriving in the marshalling yard.
- 2. Audits will include an inspection of the measures used to identify the 'Quarantine' area of the marshalling yard.
- 3. Audits will include a review of collected borrow pit documentation.
- 4. Audits will include an observation of the received material inspection procedure.
- 5. Audits will include an inspection of reinforcement steel stored at the marshalling yard.
- 6. Audits will include a review of earthworks materials being installed at a structure location, complete with an inspection of the associated documentation.
- 7. The audit procedure will include a Form to be used for the purpose of documentation of the audit (referenced below).

3.3.3 Documentation

The audit documentation form will feature the following; where a field specifies 'notes', the field shall contain both a nonconformities column and a rectification column:

- 1. Information fields identifying:
 - a. Date of audit
 - b. Name of auditor
 - c. Identification of marshalling yard audited
 - d. Identification of Project office audited
- 2. Notes field for incoming material documentation
- 3. Notes field for guarantine area marking scheme
- 4. Notes field for borrow pit documentation.
- 5. Notes field for material receiving documentation
- 6. Notes field for reinforcing steel documentation
- 7. Notes field for installed earthworks material documentation

3.3.4 Frequency

Audits will be conducted on the following schedule (please note that this schedule will apply to:

- One audit will be conducted exactly 1 week following the first receipt of material.
- Following the initial audit, an additional two audits shall be conducted on two week intervals. These (three) audits correspond to the 'setup' period of the Project Quality Plan.
- After the 'setup' period, one audit will be conducted per month, on a random basis.

4 General Work Activities

This section describes Quality Control measures that are broad in application and that apply to multiple work activities.

4.1 Drawings

Under no circumstances will any of the Subcontractor's personnel, for the purpose of constructing or inspecting any element of the work represented in the Contract, consult drawings that are not marked "Issued for Construction".

4.2 Procedures

Where the Contract specifies that the Subcontractor must submit procedures for the work it completes, such documentation shall be collected prior to the start of work subject to the procedure requirement, and made available in the Project office.

Where specified procedure requirements are subject to certification (i.e. welding procedures) such procedures shall form a part of the Quality Record.

4.3 Certifications

Certification of procedures, where specified by the Contract, shall form a part of the Quality Record and be made available in the Project office.

Where Certifications are required as a part of the Quality record for a given work activity, copies of the certification are to be attached to the Quality Form associated with the work activity in question.

4.4 Trade Qualifications

Where the Contract specifies trade qualifications for a certain work activity (i.e. welding), such qualifications shall be documented in advance of the completion of work and be made available in the Project office.

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4.5 Supervisory Qualifications

Several work elements of the Contract specify Supervision by a Qualified Supervisor. In order to document its conformance to the requirements of the Contract, it is the Subcontractors intent to implement a Supervisory Qualification Registry. This registry will be kept in the Project office and updated each time a new Supervisor is introduced or promoted on the Project.

4.5.1 Supervisory Qualification Registry

The Supervisory Qualification Registry shall consist of a chart listing the following information for each of the Subcontractor's Supervisors:

- Supervisor's name
- Check-boxes for each Contract work activity specifying Supervisory Qualifications
- Signature column for Quality Coordinator

The Supervisory Qualification Registry will form an element of the Quality Record.

4.5.2 Documentation

Documentation of any Supervisor's qualifications will be provided at the request of the Prime Contractor in the form of a resume.

4.6 Calibration & Testing of Tools & Instruments

4.6.1 General

Several work elements of the Contract specify Calibration or testing of installation tools and/or measurement instruments. In order to document its conformance to the requirements of the Contract, it is the Subcontractors intent to implement the following Quality Control measures:

- Collection and preservation of Calibration / Testing Records
- Tool Control Registry

4.6.2 Calibration / Testing Records

Prior to its use on the Project, any tool or measuring device specified in the Contract for calibration or testing will be tested (a) by the Subcontractor where its personnel and/or equipment are capable of completing such an inspection or calibration or (b) by an external calibration or testing laboratory.

Following testing or calibration of a tool or instrument, the following will apply:

- The testing or calibration certificate will be submitted to and preserved in the Project office.
 - The testing certificate will feature the instrument's serial number unit number
- A sticker or tag will be affixed to the tool or instrument indicating the date of its last calibration, and the date of its next calibration.
- An automated message will be initiated in Microsoft Outlook by the Quality Coordinator one month before the tool or instrument's next calibration.

Testing and calibration certificates will be preserved in the Project office and will form an element of the Quality Record.

4.6.3 Tool Control Registry

The tool control registry shall consist of a chart featuring the following columns:

- Tool unit number
- Description (2-4 words as required)
- Manufacturer
- Model Number
- Calibration Date
- Date of next calibration

The Tool Control Registry shall form an element of the Quality Record.

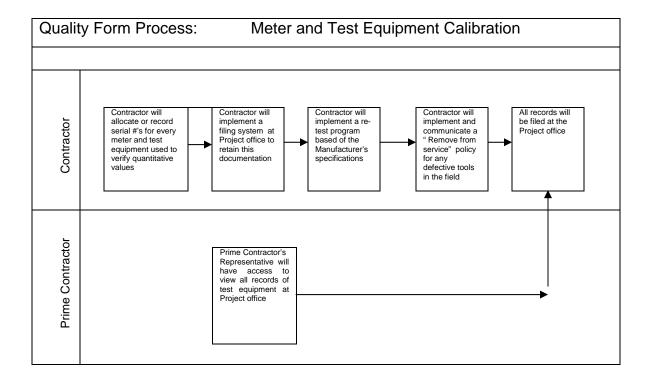
4.6.4 Periodicity of Calibration / Inspection

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With regard to periodicity, the period between calibrations of a given tool or instrument shall be determined from the following according to the following precedence:

- 1. Prime Contractor's requirements as specified in the Contract
- 2. Legislative requirements
- 3. Manufacturer's recommendations
- 4. 1 year (specified in the absence of any other recommendations)

Notwithstanding the above the shortest period specified by items (1), (2), and (3) shall take absolute precedence.



4.7 Audits (Work Activities)

This section addresses only those audits associated with Quality Assurance and Control for work activities.

4.7.1 General

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Field-level audits will be instituted for the purpose of ensuring that Quality Assurance and Control measures are being implemented in accordance with the PQP. It is intended that an audit will be completed in approximately one day.

4.7.2 Procedure

The Subcontractor will compose a complete procedure for the completion of field-level audits on work activities. This procedure will implement the following elements:

- 1. Audits will include spot checks on documentation for material installed on the site.
- Audits will include supervisory spot checks to ensure (a) that each work activity being completed is supervised by a supervisor listed on the Supervisory Qualification Registry, and (b) that Supervisor is qualified to supervise the work being completed.
- Audits will include spot checks to ensure that any tools or measuring devices being used in the completion of work that are subject to testing or calibration are listed on the Tool Control Registry and further that any such tools carry a valid certificate of calibration or testing.
- 4. Audits will include an inspection of onsite documentation being completed for the purpose of documenting the completion of work and/or the inspection thereof.

- 5. Audits will include a review of the procedures documented in the Quality Record, and spot checks on affected activities to ensure that these activities are being completed in accordance with the governing procedure.
- 6. Audits will include a review for the purpose of identifying any related Quality issues, and reviewing the Project Quality Plan to ensure that it conforms to the requirements of the Contract.
- 7. The audit procedure will include a Form to be used for the purpose of documentation of the audit (referenced below).
- 8. The audit procedure will include reference to the identification of root causes and the correction thereof.

4.7.3 Documentation

The audit documentation form will feature the following; where a field specifies 'notes', the field shall contain both a nonconformities column and a rectification column:

- 1. Information fields identifying:
 - a. Date of audit
 - b. Name of auditor
 - c. Identification of marshalling yard audited
 - d. Identification of Project office audited
- 2. Notes field for installed material documentation
- 3. Notes field for supervisory qualification documentation
- 4. Notes field for tool and instrument and documentation
- 5. Notes field for work records documentation
- 6. Notes field for procedures documentation
- 7. Notes field for Contract conformity

4.7.4 Frequency

Audits will be conducted on the following schedule:

- One audit will be conducted exactly 1 week following the first completion of onsite work.
- Following the initial audit, an additional two audits shall be conducted on two week intervals. These (three) audits correspond to the 'setup' period of the Project Quality Plan.
- After the 'setup' period, one audit will be conducted per month, on a random basis.

- If a deficiency is identified, a formal notification report will be issued to the sub-contractor informing them of:
 - 1. The nature of the deficiency
 - 2. Potential severity or impact of deficiency
 - 3. Timeframe to Address Deficiency
 - Minor- 14 working days
 - Moderate- 7 working days
 - Major- 2 working days

4.8 Nonconformities

Nonconformity refers to an identified condition where a material or its associated documentation does not conform to the measures and procedures specified in the Project Quality Plan.

4.8.1 Stop Work Authority

Where a systematic nonconformity has been identified, the Quality Manager is empowered to halt any associated work until such time as he is satisfied with regard to the fact that the systematic nonconformity has been addressed or eliminated.

4.8.2 Nonconformity Reporting

'Nonconformity Reporting' as described in this section refers to the identification and tracking of material and construction nonconformities under conditions that are not explicitly addressed by the ITP.

The Contractor shall employ a nonconformity reporting Form for the purpose of logging nonconformities. Nonconformity Reports can be triggered on authority of coordinators in all management groups, construction Foremen and Supervisors, the Project Manager, or the Quality Manager. The following situations will trigger a Nonconformity Report:

- 1. Nonconformity is identified in the course of an audit.
- 2. Nonconformity is observed by the material manager or a subordinate in the course of material distribution

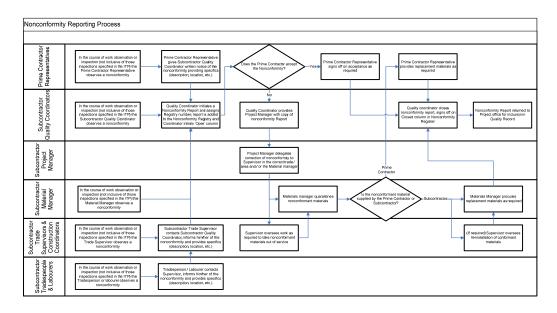
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- 3. Nonconformity is observed by a tradesperson or labourer in the field and reported to their Foreman or Supervisor
- 4. Nonconformity is observed by an agent of the Prime Contractor

All Non-conformances shall be copied to the Quality Manager as soon as they are initiated. All dispositions shall be submitted to the Quality Manager, and the Client's Quality Representative, prior to the remedial work commencing, for approval. No remedial work is to commence until this approval is obtained.

4.8.2.1 Procedure

The procedures to be followed in the identification and tracking of nonconformities is illustrated in the following diagram:



All non conformances shall be copied to the Quality Manager as soon as they are initiated.

All dispositions shall be submitted to the Quality Manager, and the Client's Quality Representative, prior to the remedial work commencing, for approval.

No remedial work is to commence until this approval is obtained

4.8.2.2 Nonconformity Control

The primary mechanisms of nonconformity control to be implemented are the Material Nonconformity Report Form and the Nonconformity Register.

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Nonconformity Report Forms shall form an element of the Quality Record.

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4.8.2.3 Nonconformity Report Form

The Nonconformity Report Form will feature the following information:

- Nonconformity Registry number
- Name of individual that observed the Nonconformity
- Name and signature of Quality Coordinator
- Description of Nonconformity
- Description of rectification
- Description of root causes

Nonconformity Report Forms are to be filled out only by the Quality Coordinator.

4.8.2.4 Nonconformity Register

The Nonconformity Register forms a part of the Quality Record.

The Nonconformity Register will consist of a grid wherein each row provides the information associated with a given Nonconformity Report. The columns of the Nonconformity Register will feature the following information for each Nonconformity Form:

- Nonconformity Registry Number
- Brief (2-3 words) Description
- 'Open' initial column
- 'Closed' initial column

5 Specific Work Activities

This section of the PQP directly addresses the manner in which Quality Control measures will be applied to specific work activities, as required by the Contract and Tender Documents and as directed by the PQP.

5.1 Construction of Access and Right-of-Way

The goals of the Project Quality Plan with respect to Construction access and ROW are as follows:

- 1. To ensure that access is constructed in accordance with the requirements of the Prime Contractor.
- 2. To promote and maintain the positive relationships of the Prime Contractor with Landowners along the ROW.
- 3. To ensure that gates and fencing are established in accordance with the requirements of the Prime Contractor.
- 4. To ensure that the ROW is restored in accordance with agreements between the Prime Contractor and affected landowners along the ROW.
- 5. To ensure that fence and access construction, as well as ROW restoration are documented for the purpose of assuring the Prime Contractor of the Quality of work completed.

Note: Control of access to the ROW is addressed in the Subcontractor's Access Plan.

Note: Environmental issues are addressed in the Subcontractor's environmental plan.

5.1.1 Access and Approaches

To ensure the conformance of constructed access roads and approaches, the Subcontractor Quality Coordinator, in cooperation with the Subcontractor Lands Manager will maintain a complete set of Plan and Profile drawings for each awarded section of ROW. In this set of Plan and Profile drawings, the following data will be recorded:

- Location and diagrams of every off-ROW access road or trail constructed by the Contractor
- An information box on each page indicating the status of the section of ROW

- Drawing amendments showing precisely which section of the ROW is addressed on the Plan and Profile drawing in question
- Information boxes for each access road or trail indicated on the Plan and Profile drawings indicating the status of the access facilities

When access to a section of ROW is granted by the Prime Contractor, the Subcontractor Lands Manager will mark all plan and profile drawings affected by the section of ROW to which access has been granted as 'Open'. The Land Manager will then affix a status label to the drawings for each off-ROW access trail. The status label will contain one of the following comments:

- Proposed Entered in the status box when an access trail has been determined to be required for access to one or more structures.
- Approved Entered in the status box when an access trail has been approved for construction or use.
- Abandoned Entered in the status box when the use of an access trail is no longer required.

Where a proposed access trail conforms to the Prime Contractor's access plan or any amendments thereto, the trail will automatically be assigned 'Approved' status.

Typically, access trails will only be assigned 'Abandoned' status after all stringing activities have been completed, along with pre-commissioning reports.

5.1.2 ROW Restoration

To ensure the conformance of ROW restoration with the requirements of the Prime Contractor (i.e. conformance with the Prime Contractor's agreement with the Landowner) the Subcontractor Quality Coordinator in cooperation with the Subcontractor Lands Manager will maintain a complete set of Plan and Profile drawings for each awarded section of ROW. In this set of Plan and Profile drawings, the following data will be recorded:

- The status of each section with respect to ROW access
- 'Redline' Mark-ups of areas that have been disturbed, along with note-box labels describing the condition of the ROW.



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The Subcontractor Lands Manager will be responsible for confirming the condition of the ROW. Following completion of construction and stringing activities, the lands manager will be responsible for directing and confirming the restoration of the ROW. Restoration of the ROW will be conducted in accordance with the requirements of the Contract.

If at any time over the course of ROW restoration a landowner directly expresses dissatisfaction with ROW restoration efforts, the Subcontractor will inform the Prime Contractor and continue with restoration activities under the Contract or any changes thereto.

Conformance of ROW restoration to the Contract will be demonstrated to the Prime Contractor by way of inspection. Documentation of the conformance of ROW restoration to the requirements of the Prime Contractor will be recorded.

5.2 Foundation Installation

The goals of the Project Quality Plan with respect to Foundation Installation are as follows:

- To ensure that the positions of installed foundations conform to the positions described by the Prime Contractor's established markers.
- To ensure that concrete employed in the construction of foundations conforms to the requirements of the Prime Contractor.
- To ensure that the compaction of backfill materials and subsurface materials beneath the structure conform to the Prime Contractor's requirements.
- 4. To ensure that the placement of reinforcing steel is completed in accordance with the Prime Contractor's requirements
- 5. To ensure that soils not conforming to the Prime Contractor's expectations are observed and reported.
- 6. To assure the Prime Contractor that all foundation work completed by the Subcontractor is completed in accordance with the Prime Contractor's requirements.

5.2.1 Positional Tolerances

The following measures will instituted to ensure that towers are installed in accordance with the Prime Contractor's drawing package:

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- 1. Upon arrival onsite the Subcontractor's personnel will establish offset stakes to allow space for the completion of work activities while preserving the locations of the Prime Contractor's stakes.
- 2. While foundation construction activities proceed, the offset stakes will be used to establish and confirm the positional dimensions of the foundation during the construction of forms and installation of caissons, and/or rock anchors.
- 3. Following the establishment of the lower elements of the foundation, a tower template will be used to confirm the location of the stub legs relative to each other. With the stub legs secured to the template, a (Subcontractor-employed) surveyor will confirm the location and orientation of the stub legs. The template and stub legs will then be secured with temporary works for the duration of tack welding or initial concrete setup.

For the purpose of assuring the Prime Contractor of the conformance of the positional dimensions of the installed tower to the tolerances provided by the Prime Contractor, the positional dimensions will be confirmed by the surveyor and recorded on Stub Angle Checklist Form. The site of the work will be available to the Prime Contractor for inspection at any time over the course of construction.

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5.2.2 Concrete Testing

The following measures will be implemented to ensure that all concrete installed over the course of the Project satisfies the requirements of the Prime Contractor with respect to its physical properties:

- 1. The concrete mix design will be submitted to the Prime Contractor for review two weeks prior to the delivery of concrete to the site.
- 2. No concrete will be accepted onsite if delivery tickets are not provided. These tickets will be preserved in the Quality Record and attached to Foundation Report for Structure for the purpose of associating loads of concrete (and their associated test cylinders) with the structure locations at which they were deposited.
- The Subcontractor will cooperate with the Prime Contractor's Third Party testing subcontractor with respect to the coordination of concrete testing (slump test, break test, compressive testing, etc.).

5.2.3 Compaction Testing

Compaction testing will be performed in accordance with the requirements of the Contract; associated documentation will be collected by the Subcontractor for inclusion in the Quality Record and attachment to any required Forms. All relevant documentation will also be forwarded to the Prime Contractor. In the event that compaction testing reveals incompetent soils, the Subcontractor's Supervisor will immediately notify the Prime Contractor's representative.

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5.2.4 Forming and Placement of Reinforcing Steel

The following measures will be implemented for the purpose of ensuring that reinforcing steel is formed and placed in accordance with the requirements of the Prime Contractor:

- 1. The Subcontractor will submit CWB-approved welding procedures to the Prime Contractor for review 2 weeks prior to the completion of welding in the assembly and/or placement of reinforcing steel. In the completion of welding on any reinforcement steel installed on the Project, these welding procedures will be strictly adhered to (Note: Where welding is unnecessary in the assembly and placement of reinforcing steel, no such procedures will be submitted; the Subcontractor does not intend to weld together reinforcing steel except where it is specified by the Prime Contractor's documents).
- 2. The Subcontractor will submit bar placement diagrams to the Prime Contractor for review two weeks prior to the placement of reinforcing steel in a structure foundation (spread footing or castin-place caisson). For the generation of these drawings, the Subcontractor will require that the Prime Contractor distribute 'Issued for Construction' foundation drawings.
- 3. The Subcontractor will collect and archive mill test reports in the Quality Record at the time of receiving reinforcing steel at the Project marshalling yard. Mill test reports will be reviewed for the purpose of ensuring that received steel conforms to the requirements of the Prime Contractor with respect to the physical properties of the steel. In the event that a shipment of steel does not satisfy the requirement of the Prime Contractor, it will be returned to the supplier.
- 4. At the time of receiving, the Subcontractor will clearly label received reinforcing steel (or bundles thereof) with weather-proof bar tags referring the steel back to its mill test report. These tags will remain with the steel until such time as it is ready for installation at a foundation location.

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For the purpose of assuring the Prime Contractor of the conformity of installed reinforcing steel to its requirements, at the time of installation, bar tags will be removed from the reinforcing steel and affixed to one of the following Quality Reports (dependent upon the foundation element installed):

- 1. Foundation Report for Structure
- 2. Cast-in-Place Concrete Pile Log

These forms, along with the associated bar tags, will be submitted to the Prime Contractor as an element of the Quality Record.

5.2.5 Subsurface Confirmation

The following measures will be adopted for the purpose of confirming that the subsurface conditions encountered in the course of excavation match the subsurface conditions predicted by the Prime Contractor, or for the purpose of ensuring that — in the case where subsurface formations do not conform to the predictions of the Prime Contractor — the Prime Contractor is informed of the nature of the subsurface condition:

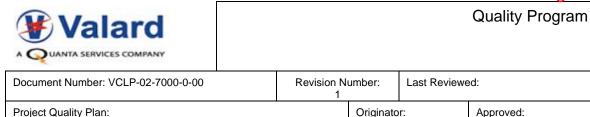
1. The Subcontractor will observe the nature of excavated soils and record such information.

5.3 Tower Installation

The goals of the PQP with respect to tower installation are as follows:

- 1. To ensure the proper fit and engagement of tower members.
- 2. To confirm the length and type of bolts installed on towers are in accordance with the requirements of the Prime Contractor.
- 3. To prevent the installation of bent, deformed, or damaged members on towers.
- 4. To ensure that test devices used in the assembly and erection of towers are properly calibrated.
- 5. To ensure that towers are installed on plumb.
- 6. To assure the Prime Contractor of the Quality of all tower installations.

5.3.1 Fit and Engagement



For the purpose of ensuring the fit and engagement of installed steel lattice tower members the Subcontractor will adopt the following measures:

- 1. At the time of assembly of tower panes or box sections assembly personnel will inspect joined members to ensure that there are no gaps at bolted joints (or in the case of back-to-back L-beams with spacers, personnel will check to ensure uniformity of the gap).
- 2. At the time of setting of the lower section of the tower on the foundation stub legs, the Foreman will conduct a visual inspection of the joint between the lower tower members and the stub legs to ensure there is no gap between the members and the tower is not twisted at the stub.
- 3. At the time of complete tower assembly (i.e. assembly of panes and sections) installation personnel and Foreman will conduct a visual inspection of joint plates and associated seams to ensure there is no gap between the joined sections of tower.
- 4. Additional spot inspections of tower arms will occur at the time of conductor installation and spacer installation. Personnel involved in these activities will report any discrepancies to their Supervisor who will in turn trigger a nonconformity report.
- 5. Subcontractor Foremen / Supervisors will perform post-assembly inspections of towers for the purpose of identifying nonconformities.

The following documentation will be provided to the Prime Contractor for the purpose of assuring the fit and engagement of completed tower assemblies:

- 1. Tower Assembly Acceptance Form
- 2. Structure Assembly and Installation Inspection Report

5.3.2 Length and Type of Bolts

The Subcontractor will adopt the following measures to ensure the correct length and type of bolts:

- 1. Assembly personnel will be directed to assemble towers using only hardware provided in tower kits by the Prime Contractor.
- 2. Assembly personnel will be given information regarding the visual identification of properly chosen size of fastener both before and after installation. Information provided will cover the following points:
 - a. Selecting the correct diameter of fastener

- b. Selecting the correct length of fastener
- c. Confirming the correct length of fastener (following installation)
- At the time of tower inspections (whether following partial or complete assembly), supervisory personnel will be directed to examine installed fasteners to ensure they have been chosen properly and are of appropriate length.
- 4. The Subcontractor will cooperate with the Prime Contractor with respect to the coordination of inspections of towers (it is assumed the Prime Contractor will also be examining fasteners to confirm correct choice).
- 5. Fastener choice will be cited as a potential element to be observed in the submission of nonconformity Reports.

For the purpose of assuring the Prime Contractor that towers have been assembled using the correct fasteners, fastener choice shall form an element of the inspections associated with the following Forms:

- 1. Tower Assembly Acceptance Form
- 2. Structure Assembly and Installation Inspection Report

5.3.3 Bent, Deformed, or Damaged Items

For the purpose of identifying, eliminating, and/or correcting bent deformed or damaged tower members and/or fasteners, the following measures will be implemented:

- 1. Tower packages will be inspected both at the time of receiving and at the time of arrival onsite for assembly. Bent, deformed, or damaged members will be identified and logged on the structure shakedown report for notification of the Prime Contractor.
- 2. As towers are assembled, individual parts will be examined for fit and dimension. Bent, deformed, or damaged members will be identified and logged on the structure shakedown report for notification of the Prime Contractor.
- In the event that the Subcontractor identifies bent, deformed or damaged items, it will make written application to the Prime Contractor to the Prime Contractor of its intentions for the members (rework, remanufacture, re-order, etc.) prior to proceeding.

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- 4. Assembly personnel will be directed not to install bent or damaged members on towers.
- 5. At the time of tower inspections (whether following partial or complete assembly), supervisory personnel will be directed to examine tower members to ensure they are free of damage and defects.
- 6. The Subcontractor will cooperate with the Prime Contractor with respect to the coordination of inspections of towers (it is assumed the Prime Contractor will also be examining members to confirm that they are free of damage).
- 7. Member condition will be cited as a potential element to be observed in the submission of nonconformity Reports.

For the purpose of assuring the Prime Contractor that all towers have been assembled using only members that are straight and free of damage, member damage will be an element addressed in the inspections associated with the following Forms:

- 1. Structure Shakedown Report Form
- 2. Tower Assembly Acceptance Form
- 3. Structure Assembly and Installation Inspection Report

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5.3.4 Installation Bolt Torque

Note: Because the two subjects are closely related and inspected in sequence, Installation Bolt Torque is addressed below along with Locking Devices.

5.3.5 Testing Tools and Calibration

In order to ensure that testing tools used in the assembly of towers conform to the requirements of the Contract, the following calibration schemes will be implemented:

- 1. Where power wrenches are used to torque bolts:
 - a. Calibrated slip devices will be used to prevent over-torque situations.
 - b. The Subcontractor will either procure the services of a testing laboratory to calibrate the slip devices daily, or it will purchase a standard and develop a testing rig for the purpose of calibrating slip devices on a daily basis.
- 2. Where manual wrenches are used to torque bolts:
 - a. To prevent over-torque situations, power wrenches having a maximum torque output less than the minimum torque specified in the Contract (40 ft-lbs) will be used for initial installation of bolts on the structure
 - b. Final torque installation will be completed using calibrated manual torque wrenches.
 - c. The Subcontractor will either procure the services of a testing laboratory to calibrate the slip devices monthly, or it will purchase a standard and develop a testing rig for the purpose of calibrating torque wrenches on a monthly basis.

For the purpose of assuring the Prime Contractor of the conformity of its torque devices to the requirements of the Contract, the following documentation will be included in the Quality Record for submission to the Prime Contractor (ref. Section 4.5 of the PQP):

- 3. Calibration / Testing Records
- 4. Tool Control Registry
- 5. Labels applied to torque devices

5.3.6 Locking Devices (and Installation Bolt Torque)

In order to ensure that locking devices and torque devices are used in accordance with the requirements of the Contract the following measures will be adopted:

- Copies of the torque charts for fasteners used in tower assembly as provided in the Contract will be distributed in the field (ideally these could form a part of the acceptance form or be printed on the back thereof).
- 2. Assembly personnel will receive training with respect to the use of power wrenches (with and without torque limiting devices) and manual torque wrenches.
- 3. Before the bolts to be installed in any given structure or surface thereof are secured at rated torque, all bolts on that structure or surface will be installed loosely, following which all bolts on the structure or surface will be installed to rated torque.
- 4. After each nut on the structure is torqued, the individual confirming the fastener torque will apply red permanent marker to the back side of the bolt.
- 5. After all bolts on a structure or surface are correctly torqued and the bottoms marked with red permanent ink, the structure will be inspected by the Foreman or Supervisor; the inspecting party will examine all fasteners for proper size and length, and torque-test 10% of the fasteners with a manual torque wrench. The inspection will then be recorded on the appropriate Quality Form.
- 6. Following the inspection of the structure or surface by the supervisor, each bolt will be deformed in the first thread emerging from its associated note using a punch/chisel and hammer ('caulking' or 'corking'). After each bolt is deformed, the individual performing the corking will then apply black permanent ink to the back of the bolt.
- 7. Following corking (caulking) and marking, the supervisor will conduct a second inspection.

The installation and marking procedure described in steps 4-7 is routine for the Subcontractor's tower assembly crews; it is referred to as the 'Torque and Cork' method.

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For the purpose of assuring the Prime Contractor of the conformance of tower assemblies to the requirements of the Contract, the following Forms will be used to document the inspections conducted in the course of and following assembly:

- 1. Tower Assembly Acceptance Form
- 2. Structure Assembly and Installation Inspection Report

5.3.7 Plumb / Straightness of Erected Towers

Because of the rigid nature of lattice towers, tubular steel monopoles, and wood pole H-frames, the straightness of a tower is entirely dependent upon a level foundation. As such, ensure that a tower is plumb equates precisely to ensuring that the foundation is level. The following measures will be implemented for the purpose of ensuring that towers are installed in plumb in accordance with the requirements of the Contract:

- 1. Upon arrival onsite the Subcontractor's personnel will establish offset stakes to allow space for the completion of work activities while preserving the locations of the Prime Contractor's stakes.
- While foundation construction activities proceed, the offset stakes will be used to establish and confirm the positional dimensions of the foundation during the construction of forms and installation of caissons, and/or rock anchors.
- 3. Following the establishment of the lower elements of the foundation, a tower template will be used to confirm the location of the stub legs relative to each other. With the stub legs secured to the template, a (Subcontractor-employed) surveyor will confirm the location and orientation of the stub legs (this process will be inclusive of confirming that the template is level). The template and stub legs will then be secured with temporary works for the duration of tack welding or initial concrete setup.

For the purpose of assuring the Prime Contractor of the conformance of tower assemblies with respect to plumb, each installation will be documented on a Stub Angle Checklist.

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5.4 Installation of Conductors

The goals of the PQP with respect to the installation of conductors are as follows:

- 1. To ensure that splice and deadend connectors are installed in accordance with the Prime Contractor's requirements.
- 2. To ensure that conductors are installed at the sag specified by the Prime Contractor.
- 3. To ensure that conductor tie-ins are completed in accordance with the requirements of the Prime Contractor.
- 4. To assure the Prime Contractor of the Quality of all conductor installations.

5.4.1 Sleeves, Deadends, and Electrical Connectors

For the purpose of ensuring the conformance of sleeves, deadends, and connectors to the requirements of the Contract, the following measures will be adopted:

- 1. All personnel involved in conductor bonding will receive training in the use of compression-type splices and deadends.
- 2. Completed splices will be inspected in detail for defects; unsatisfactory splices will be cut out and replaced.
- 3. Compression-type splices will be inspected using go-no-go gauges 'across the flats'. Personnel will be provided with training in the use of go-no-go gauges.
- At the option of the Prime Contractor, all implosive connectors will be installed in the presence of the Prime Contractor's Representative.
- 5. Implosive type sleeve connectors will be installed in accordance with Specifications.
- 6. Compression and implosive type connectors will be x-ray inspected at the Prime Contractor's option.

To assure the Prime Contractor of the conformance of deadends, sleeves, and connectors to the requirements of the Contract, splicing and connecting activities will be documented on the following Forms:

- 1. Conductor Splice Data Sheet
- 2. Conductor Splice Acceptance Form

To assure the Prime Contractor that the Subcontractor has properly accounted for all implosive sleeve connectors in its possession, the Subcontractor will document the storage and installation of implosive sleeve connectors on the following Forms:

- 1. Blasting Logs
- 2. Magazine Logs

5.4.2 Sag Verification

For the purpose of verifying the sag of installed conductors, the following measures will be implemented:

- 1. In advance of stringing / sagging operations, the Subcontractor's proposed butt down and pulling setup areas will be submitted to the Prime Contactor for review.
- 2. Butt-down locations will be chosen so as to minimize conductor waste.
- 3. The Subcontractor will submit a written request for sag data to the Prime Contractor.
- 4. Stringing sheaves will be chosen to conform to the requirements of:
 - a. The Contract
 - b. The conductor manufacturer
 - c. IEEE standard 524
- 5. Stringing activities will be supervised by a qualified Supervisor with extensive experience in the tension stringing method of bundled conductor installation.
- 6. Stringing activities will be performed in conformance with the requirements.

For the purpose of assuring the Prime Contractor of the conformance of strung conductor to the requirements of the Contract, sagging activities will be documented in the following Forms:

- 1. Review of Contractor's Pull Sites Form
- 2. Stringing and Sag Data Reports

5.4.3 Ground Clearance Confirmation

As stated in the specification, ground clearance confirmation will be the responsibility of the Prime Contractor. The Subcontractor will cooperate with the Prime Contractor's Representative with respect to providing schedule information and confirming which sections of line are ready for ground clearance confirmation.

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Valard A QUANTA SERVICES COMPANY				Quality Program	
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Project Quality Plan:		Originato	or:	Approved:	

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5.4.4 Conductor tie-ins

For the purpose of ensuring that conductor tie-ins are completed in accordance with the requirements of the Contract the following measures will be implemented:

- 1. Clipping personnel will receive training in the correct installation of tie-in hardware in accordance with specifications. This training will be inclusive of:
 - a. Discussion of insulator handling and care
 - b. Discussion of hardware alignment and installation
 - c. Discussion of correct installation and orientation of cotter keys to allow for hotstick installation / removal.
- 2. Clipping personnel will be instructed in the correct installation of insulator string tie-ins with respect to offset distance.
- 3. Inspections will be conducted to ensure that conductor tie-in hardware is properly installed in accordance with the specification.

For the purpose of assuring the Prime Contractor that tying-in activities have been completed in accordance with the requirements of the Contract, the Subcontractor will document tying-in activities on Final Phase III Acceptance Form.

5.5 Final Inspections and Commissioning Patrols

The goals of the PQP with respect to final inspections and commissioning patrols are as follows:

- 1. To provide a final opportunity to ensure that all Quality-related properties of sections of the transmission line are confirmed prior to final handover of the line for commissioning.
- 2. To ensure that all commitments of the Subcontractor under the Contract have been satisfied prior to its closure of such Contract.
- To assure the Prime Contractor of the overall Quality of all works constructed under the Contract prior to final handover of the transmission line.

Final inspections and patrols will be conducted and documented in accordance with Contract and in full cooperation with the Prime Contractor. These inspections will be documented in the following Forms:

- 1. Transmission Pre-Commissioning Check Form
- 2. Patrol Worksheet

(End of Document)



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SECTION 4 – SUBCONTRACTOR CONTROLS

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4.2	Pre-Contract Controls
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4.5.3	Subcontractor Pre-qual Audit Form
4.5.4	Subcontractor Site Safety Audit Form



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4.1 SUBCONTRACTOR POLICY

It is the policy of Valard that all direct hire and subcontractor employees are entitled to work in a safe environment. To achieve this, every reasonable effort shall be to eliminate hazards and prevent incidents that cause injury to workers, environmental damage and property damage. This effort shall include controls applied both before awarding a subcontract and during the execution of the work.

Valard believes that taking proper precautions can prevent incidents. It is the duty of every subcontractor, in the performance of their subcontract, to cooperate with and comply fully with Valard's Health, Safety & Environmental Manual and Provincial/Federal Health, Safety & Environmental Regulations.

4.2 PRECONTRACT CONTROLS

All subcontractors are to be evaluated before being considered for a subcontract to ensure they are capable of meeting Valard's safety standards.

Subcontractors being evaluated must submit the following documentation to Valard.

- Copy of subcontractor's safety manual
- Completed copy of Form 4.5.2 Subcontractor Pregualification Questionnaire Form
- Copy of A WCB clearance letter. If the subcontractor is unable to provide the document, the client must approve them prior to them entering the worksite.

The Vice President of Health and Safety will review these documents for acceptability. The subcontractor can be rated as "approved", "approved with conditions" and "rejected". Subcontractors with a "rejected" rating may be considered only if there are no "approved" or "approved with conditions" rated contractors available.

Subcontractors are to be advised that they are responsible for screening any of their subcontractors they retain to ensure they are capable of meeting Valard's Safety standards.

Valard's Health, Safety and Environmental Department will review and evaluate subcontractor's 4.5.2 Prequalification Questionnaire Form by completing Form # 4.5.3 and will either approve their Manual or request that Valard's HS&E Manual be followed.

4.3 PRECONSTRUCTION CONTROLS

Before subcontractors are permitted to mobilize on site and begin work, the following steps must be taken:

- Subcontractor Policy Agreement Form #4.5.1 must be signed and forwarded to the Edmonton office.
- A copy of the subcontractor's safety manual must be submitted to the project Area Supervisor.
- WHMIS Material Safety Data Sheets are to be submitted to the Area Supervisor or the Safety Coordinator for every controlled product the subcontractor uses or stores on site. MSDS's are not valid if they are over three years old. (See Section 13 of this Manual)

All subcontractor personnel must complete CSTS (Construction Safety Training System, offered by the Alberta Construction Safety Association) if:



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- The client requires it. Workers arriving for orientation must have a valid CSTS wallet card in their possession.
- Subcontractors are to ensure that they have an adequate number of employees trained in First Aid to meet the requirements of the OH&S First Aid Regulations.
- The subcontractor's Site Supervisor must attend a pre-job meeting and physically inspect the work site.
- Subcontractors must submit a Hazard Analysis for their scope of work. (See Section 6 of this manual)

4.4 CONSTRUCTION CONTROLS

Subcontractors in the process of performing work under the control of Valard must meet the following requirements:

- All work will be performed in accordance to the subcontractor's safety manual. If
 the standards set out in the subcontractor's manual is exceeded by Valard's
 Health, Safety & Environmental Manual, our clients Safety Manual and/or
 Legislation, the higher standard must be adhered to. Subcontractors without a
 manual or without elements included in Valard's manual shall follow Valard's
 manual.
- Workers arriving on a Valard's Site must receive Valard's Site Specific Orientation as per Section 8 of this manual and any applicable client required orientations.
- Subcontractors will be responsible for monitoring the performance of their employees and subcontractors and taking corrective action when necessary. (See Section 3 of this manual)
- All subcontractor employees will participate in a morning Tailboard (pre-task meeting) Valard and its subcontractors will hold joint meetings whenever practical. (See section 6 of this manual)
- All site subcontractor employees will participate in a monthly safety meeting. (See Section 8 of this manual)
- All subcontractors will perform a bi-weekly safety inspection and submit it to Valard's Foreman or Safety Coordinator. (See Section 9 of this manual)
- Subcontractors shall ensure that their employees have adequate Personal Protective Equipment available to them (See Section 10 of this manual)
- Subcontractors are required to report all incidents and near misses to Valard's Foreman and the Vice President of Health, Safety & Environment.
- Valard and their Subcontractors shall investigate as a minimum:
 - Lost Time Incidents
 - 2. Medical Aid Incidents
 - 3. Incidents resulting in Modified Work
 - 4. Incidents that had potential for serious injury or property damage
- Valard and their subcontractors will provide the investigation of incidents results to the client if required.
- Subcontractors are to ensure their employees are familiar with site emergency procedures. (Both Valard's and the owner/clients if applicable).



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- Valard may require a manpower roster within one hour of work commencing for the day for evacuation head count purposes.
- Subcontractors shall actively manage WCB claims and will provide Modified Work whenever possible.
- Subcontractors shall at all time maintain a substance abuse program equivalent while on the worksite as documented in the Construction Owners Association of Alberta Model. (See Section 16 of this manual). In cases where the client's Alcohol and Drug Policy differs from the Canadian Model then Valard will inform the subcontractor and will provide a copy of the client's Alcohol and Drug Policy and that this policy must be communicated to their employees and it must be adhered to while working on their worksite.
- Subcontractors shall maintain all of their tools and equipment as per manufactures specifications. All tools and equipment must be inspected at the start of the job and then on a monthly basis thereafter. The inspections must be recorded and forwarded to Valard's' Area Supervisor or Safety Advisor. All mobile equipment must be accompanied with a mechanic's report on its condition including a signed statement that all safety switches operate as per manufacturer's design. Cranes/lifting devices require a Boom certificate dated within the past 12 months and recertified if it is expired before continuing work.
- On the last working day of the month, subcontractors are to submit their statistics for themselves and their subcontractors to the Area Supervisor or Safety Coordinator. The statistics must include:
 - 1. Number of First Aid Incidents
 - 2. Number of Medical Aid Incidents
 - 3. Number of Lost Time Incidents
 - 4. Number of Near Miss Incidents
 - 5. Number of Property Damage Incidents
 - 6. Number of Environmental Incidents
 - 7. Total Man Hours Worked
- Subcontractors are to provide or develop any necessary safe work practices and procedures. The practices and procedures must be applicable to the project.
- Subcontractors will be evaluated for compliance after a maximum of 30 days on site using Valard's Subcontractor's Site Safety Audit Form #4.5.4.
- All subcontractors will be evaluated after the specific project is completed using the following information;
 - Monthly Health and Safety stat reports as required in Section 21 (monthly HS&E reports)
 - 2. Site Inspection reports
 - 3. Form 4.5.2 Subcontractor's pre-qual
 - 4. Form 4.5.3 Subcontractor's Pre-qual audit
 - 5. Form 4.5.4 Subcontractors site safety audit
- The following individuals are to be present during the projects subcontractors' evaluation meeting, Valard's Vice President of Health and Safety, Project Manager, site Superintendent, site Safety Advisor, Valard's person in charge of



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subcontractors work and subcontractors project manager and site safety advisor if available.

• Subcontractors will be evaluated on the above 5 key result points and items that are identified as non compliance to Valard's HS&E requirements will be required to demonstrate a commitment to address these issues, will not be permitted to bid on work until they have shown until they satisfy the requirements.



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4.5.1 SUBCONTRACTOR POLICY AGREEMENT FORM.

It is the policy of Valard Construction that all direct hire and subcontractor employees are entitled to work in a safe environment. To achieve this, every reasonable effort shall be to eliminate hazards and prevent incidents that cause injury to workers, environmental damage and property damage. This effort shall include controls applied both before awarding a subcontract and during the execution of the work.

Valard Construction believes that taking proper precautions can prevent incidents. It is the duty of every subcontractor, in the performance of their subcontract, to cooperate with Valard Construction and comply fully with Valard's Health, Safety & Environmental Manual and Provincial Health, Safety & Environmental Regulations.

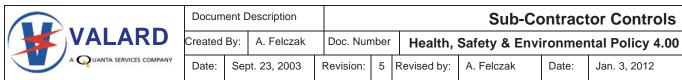
I acknowledge and agree with the above policy and I will personally endeavour to ensure that the employees of my company comply with all of the above. I understand that non-compliance with these policies may result in the dismissal of individuals on site and/or the termination of my contract.

0.0			
Senior Company Official	Company	Date	
Print Name + Title			
Site Supervisor	Company	 Date	
Print Name	_		
Additional required info:			
 Services supplied: 			
 Liability Insurance Certif 	icate:		
• Phone #:	Fax #:		
• GST #:			

WCB Clearance Letter.
 Note: All equipment must arrive with valid and current certification.

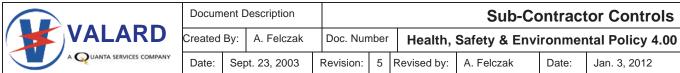
List of Equipment c/w current certification attached.

i.e. Cranes as well as boom trucks must have a boom inspection certificate within the last year. This includes all lifting equipment including manbaskets.



4.5.2	SUB-CONTRACTOR PRE-QUALIF	ICAT	ION QU	ESTIC	NAIRE FOR	RM	
Aud	litors			Date			
GEN	NERAL						
1.	Company Name		Telepho	one		Fax	
	Street Address	City	•		Province	Postal Code	
2.	Ch	ock cla	sses of wo	ark:			\equiv
2.	Concrete	wn Service		Roofing Security Sheet Mei Structural Other (list	Steel		
3.	Workers Compensation Experience Rate	ting:	lı	ndustry	/ code:		
	Rating: Year:			Partnership Discount/Surcharge			
	20						
	20						
	20						
(cop	y of the past 3 years WCB Experience Ratir	ng attac	ched)				
4.							
A.	Employee hours worked last three years (excluding subcontractors)		20		20	20	
	Total Ho	urs:					
В.	Employee hours worked last three years (including subcontractors)		20		20	20	
	Total Ho	urs:					

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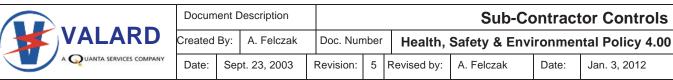


c) P	rovide the following data (excluding subcontractor) fr	om the	past three	e years:		· · ·	
		20)	20		20)
			5.				Б.,
1.	5 1 (- 1 (- 1 (- 1))	No.	Rate	No.	Rate	No.	Rate
In	jury related <u>fatality</u> Total x 200,000 = Rate						
	Total Employee Hours						
In	jury involving Lost Time						
	$Total \times 200,000 = Rate$						
	Total Employee Hours						
In	jury related days total away from work						
	<u>Total x 200,000</u> = Rate						
	Total Employee Hours						
In	juries involving medical treatment only						
	$\frac{Total \times 200,000}{Total \times Total \times T$						
Т/	Total Employee Hours otal Recordable Injuries including LTI & M.A.						
10	Total x 200,000 = Rate						
	Total Employee Hours						
To	otal number of restricted work cases						
	$Total \times 200,000 = Rate$						
	Total Employee Hours						
To	otal number of <u>days</u> of restricted work activity						
	$\frac{Total \times 200,000}{Total Frankleyen House} = Rate$						
Notes	Total Employee Hours : (1) Data should be the best available data	annlicak	olo to the	work in th	is rogion	or area	
5.	Have you received any regulatory citations in the la			WOIK III UI	IS TEGION		
5.	Have you received any regulatory citations in the la	isi iiiiee	years:		' '	62	□ No
	If yes, please attach copies.						
CAE	ETY & HEALTH MANAGEMENT						
6.	Highest ranking safety/health professional in the co		lephone:		Fax:		
	Title.	16	ерпопе.		ı ax.		
7.	Do you have or do you provide:	•			•		
	a) Full-time Safety/Health Director					Yes	☐ No
	b) Full-time Site Safety/Health Advisor					Yes	☐ No
	At what time do you provide full-time safety per						
	c) Are foremen trained and responsible for day-to			ies?		Yes	∐ No
0	INCIDENT REP			up of		Vac	□ Nia
9.	Do you have a procedure for the investigation, repoincidents, near misses, and occupation injuries?	orting, ar	id follow-	up or	Ш	Yes	∐ No

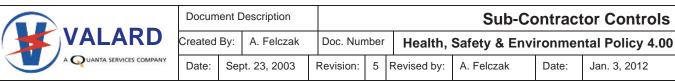


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	SAFETY & HEALTH PROGRAMS & PROCEDURES		
10.	Do you have a written Safety and Health Program?	☐ Yes	☐ No
	Does the program address the following key elements?		
	 Management commitment and expectations Employee/partners participation Accountabilities and responsibilities for managers, supervisors Resources for meeting safety & health requirements Periodic safety and health performance appraisals for all employee/partners Hazard recognition and control 	☐ Yes	No No No No No No
11.	Does the program include work practices and procedures such as: a) Elevated Work b) Equipment Lockout and Tagout c) Confined Space Entry d) Hot Work e) Fall Protection f) Personal Protective Equipment g) Portable Electrical/Power Tools/Pneumatic h) Vehicle Safety i) Compressed Gas Cylinders j) Electrical Equipment Grounding Assurance k) Powered Industrial Vehicles (Cranes, Forklifts, JLG's, etc.) l) Housekeeping m) Excavation and Trenching/Stairways n) Unsafe Condition Reporting	☐ Yes	No
	o) Emergency Planningp) Waste Disposalq) Scaffolding/Ladders/Stairways	☐ Yes ☐ Yes ☐ Yes	☐ No ☐ No ☐ No
12.	Do you have written programs for the following: a) Hearing Conservation b) Respiratory Protection Where applicable, have employees been: Trained Fit Tested	☐ Yes ☐ Yes	□ No □ No
	Medically approvedHazard Communication	Yes	☐ No
13.	Do you have a substance abuse program? If yes, does it include the following: Pre-employment Testing Random Testing Testing for Cause	Yes Yes Yes Yes	No No No No
14.	O your employees read, write, and understand English such that they can perform their job tasks safely without an interpreter? In no, provide a description of your plan to assure that they can safely perform their jobs.	Yes Yes	∐ No □ No



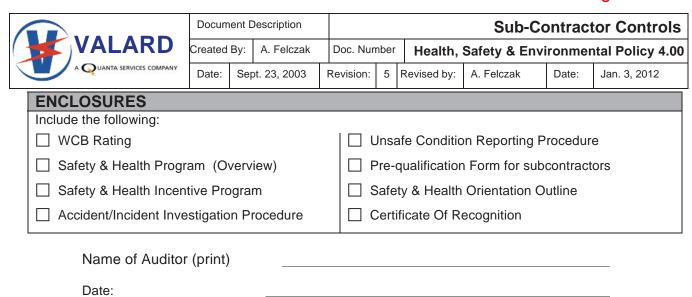
					ь	
15.	Me a)	edical Do you conduct medical examinations for:				
		Hearing			Yes	☐ No
		Pulmonary			Yes	☐ No
		Respiratory		_	Yes	∐ No
	b)	Describe how you will provide first aid and other medical servi	ices for your er	npioyees	wniie	on-site
		Specify who will provide this service?		_		_
	c)	Do you have personnel trained to perform first aid and CPR?			Yes	∐ No
16.	Do	you hold site safety and health meetings for:				
		Field Supervisors	☐ Yes	☐ No	Fred	quency
		Employees	□No	Fred	quency	
		New Hires	□No	Fred	quency	
		Subcontractors	☐ Yes	□No	Fred	quency
17.	Pe	rsonal Protection Equipment (PPE)				
	a)	Is applicable PPE provided for employees?			Yes	☐ No
	b)	Do you have a program to assure that PPE is inspected and r	maintained?		Yes	□No
18.	Eq a)	uipment and Materials: Do you have a system for establishing applicable health, safe	ty and		Yes	П№
	a)	environmental specifications for acquisition of materials and e		Ш	163	
	b)	Do you conduct inspections on operating equipment (e.g. crar JLG's) in compliance with regulatory requirements?	nes, forklifts,		Yes	☐ No
	c)	Do you maintain inspection and maintenance certification reco	ords for		Yes	□No
	۱۱	operating equipment which you own?			Vaa	□ Na
	d)	Do you verify inspection and maintain certification on rented of equipment?	or reased		Yes	□No
19.	Us	e of Subcontractors				
	a)	Do you have a pre-qualification process for subcontractors?			Yes	☐ No
	b)	Do you evaluate the ability of subcontractors to comply with a and safety requirements as part of the selection process?	pplicable healt	h 🗌	Yes	□No
	c)	Do your subcontractors have a written Safety & Health Progra	am?		Yes	☐ No
	d)	Do you include subcontractors in:				
	•	Safety & Health Orientation			Yes	☐ No
	Sa	fety & Health Meetings				
		Inspections			Yes	☐ No
		Audits			Yes	□No



20.	Safety Audits								
	a) Who conducts audits and at what frequency								
	b) Do you conduct safety and health field audits?	No							
		No							
		No							
	e) Do you have a corrective action process for addressing individual safety &								
	f) Attach a copy of the Certificate of Recognition if available								
SAF	ETY & HEALTH TRAINING								
21.									
		No							
		No							
	consensus standards?								
	<u> </u>	No							
22.	Safety & Health Orientation								
	New Hires Supervisors								
	, , — — — — — — — — — — — — — — — — — —	No							
	for new hires and new supervisors?								
	b) Does the program provide instruction on the following:								
		No							
		No							
	, , ,	No No							
		No							
		No							
		No							
		No							
		No							
		No							
	How long is the orientation program: Hours								
23.	Training Records								
	a) Do you have safety and health and crafts training records for your Yes \sum \text{Yes}	Νo							
	employees?								
	b) Do the training records include the following:								
		No							
		No							
		No							
	,	No							
	c) How do you verify understanding of the training? (Check all that apply)								
	☐ Written Test ☐ Job Monitoring								
	☐ Oral Test ☐ Other List: ☐ Performance Test								

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Signed:



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4.5.3 SUB-CONTRACTOR PRE-QUALIFICATION AUDIT FORM

					15.				
Audi	tors				Date:	:			
GEN	ERAL								
1	Company Name			Telep	hone			Fax	
	Street Address			0:4		Danie		Doot	-1 C1-
	Street Address			City		Provir	ice	Posta	al Code
WOF		TION	10					·	
	RK CLASSIFICA	HOI	15						
2		_	Check clas	sses of			_		
	Boiler Work		Heavy Hauling-Rigging		Painting			Other (Li	st) 📙
	Clerical		HVAC		Paving				
	Concrete		Inspection and Testing		Piping				⊔
	Demolition		Instrumentation		Plumbing				
	Electrical		Insulation		Remediat	ion			⊔
	Engineering	Ш	Janitorial	Ш	Roofing		Ш		Ц
	Excavation		Landscaping/Lawn Service		Security				
	Fencing		Maintenance		Sheet Me	tal			
	Fire Protection		Manpower		Structural	Steel			
	Flooring		Mechanical		Tanks				
SAF	ETY & HEALTH	PRO	GRAMS AND PROC	EDUI	RES				
3	Show the mechanism	n that	is used to communicate the f	ollowin	g from safe	ety and I	nealth p	rograms	to the
	employees. View do	cume	ntation from employee files.						I
•	Management commi	tment	and expectations] Yes	☐ No
	Employee participati	on] Yes	☐ No
	Accountability & resp	oonsib	ilities for managers, supervise	ors & e	mployees			Yes	☐ No
•	Resources for meeti	ng saf	ety & health requirements] Yes	☐ No
-	Hazard recognition a	and co	ntrol] Yes	☐ No
	View training docum	entatio	on and procedures for the foll	owing:			1		
	Elevated work] Yes	☐ No
-	Equipment Lockout	& Tago	out] Yes	☐ No
	Confined Space Ent	ry] Yes	☐ No
-	Hot Work] Yes	☐ No
	Fall Protection] Yes	☐ No
	Personal Protective	Equipr	ment] Yes	☐ No
	Portable Electrical/P	ower 7	Tools/Pneumatic] Yes	☐ No
	Vehicle Safety] Yes	☐ No
	Compressed Gas Cy	/linder	S] Yes	☐ No
1	Davis and Jackson total 1		- (Cuanas Faulditis II Ca at	۰,] Yes	
	Powered industrial v	ehicle/	s (Cranes, Forklifts, JLGs, et	C.)			_] 163	☐ No
•	Powered industrial v	/ehicle	s (Granes, Forkilits, JLGs, et	G.)			-] 163	

		Document	Description				Su	b-Contrac	tor Controls
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	A QUANTA SERVICES COMPANY	Date: Se	pt. 23, 2003	Revision:	5	Revised by:	A. Felcza	k Date:	Jan. 3, 2012
	Housekeeping							☐ Yes	□No
	Excavation and Tren	ching/Stairv	vays					☐ Yes	☐ No
	Unsafe Condition Re	porting by E	mployees					☐ Yes	☐ No
-	Emergency Planning	1						☐ Yes	☐ No
	Waste Disposal							☐ Yes	☐ No
	Scaffolding/Ladders/	Stairways						☐ Yes	☐ No
4.	View training docume	entation for	the following p	orograms.	Che	eck that the	se exist for	each applicab	le employee.
	a) Hearing Conser	vation						☐ Yes	☐ No
	b) Respiratory Prof	tection						☐ Yes	☐ No
	Where applicable	le, have em	oloyees been:						
	☐ Train	ied							
	☐ Fit Te	ested							
		cally Approv	/ed						
	c) Hazard Commu							☐ Yes	□ No
	d) Program to supp	oort the cont	ractor require	ments of a	haz	ard assess	ment .	☐ Yes	☐ No
-	Minus and an almost a de-		.					. Describie is	alada da
5.	View contractor's do following:	cumentation	i for communi	cating their	sub	stance abu	se prograr	n. Does this ir	iclude the
	Tollowing.								
	· Pre-employmen	t Testing						☐ Yes	☐ No
	Random Testing	9						☐ Yes	☐ No
	 Testing for Caus 	se						☐ Yes	☐ No
6.	Are safety meetings	held for the	following:						
	Field Supervisor	rs] Yes		☐ No	Frequer	ncy	
	· Employees] Yes		☐ No	Frequer	ncy	
	· New Hires] Yes		☐ No	Frequer	ncy	
	· Subcontractors] Yes		☐ No	Frequer	ncy	
	Are the safety and he	ealth meetin	gs documente	ed?		☐ Yes	☐ No		
7.	Personal Protection	Equipment ((PPE)						
	a) Is applicable PP	E provided	for Employees	s?				☐ Yes	☐ No
	b) View documenta	ation for the	program to as	ssure that F	PPE	is inspected	d and	☐ Yes	□No
	maintained								
8.	Show mechanism the	at is used fo	r a corrective	action pro	cess	for address	sing	☐ Yes	☐ No
_	individual safety and	health perfo	ormance defic	iencies?					
9.	View the supporting	documents	that address t	he followin	g m	aterial and e	equipment	questions:	
	System for estal specifications for specifications for specifications.						I	☐ Yes	☐ No
	b) Checklist and pr cranes, forklifts,	ocedure for	inspections o	n operating	g eq	uipment (e.	g.	☐ Yes	☐ No
	c) Inspection and r	-	-				ment?	□ Yes	Пио

				Document Description			Sub-Contractor Contre							
K		ALARD	Created	Ву:	A. Felczak	Doc. N	lumbei	r	Health,	Safety & E	Environmental Policy 4.00			
	^ Q	UANTA SERVICES COMPANY	Date:	Sep	t. 23, 2003	Revision	n: 5	R	evised by:	A. Felczak		Date:	Jan. 3, 2012	
10.	Sub	contractors:												
	a)	View safety and	health r	perfor	mance crite	ria in sel	ection	n of	subcontra	ctors?		Yes	□No	
	a) View safety and health performance criteria in selection of subcontractors?b) Show the mechanism to evaluate the ability of subcontractors to comply with										_	Yes	□No	
	applicable health & safety requirements as part of the selection process.											1 100		
	c) View the subcontractors pre-qualification records.										Yes	☐ No		
	d) View the supporting documentation that shows attendance of the following for subcontractors.									lowing		Yes	☐ No	
		•	& Health									Yes	☐ No	
		-	& Health	n Mee	eting							Yes	□ No	
		· Inspect	ions									Yes	□No	
	Vio	Auditsw the following:										Yes	☐ No	
	a)	Safety and healt	-								Ш	Yes	∐ No	
	b)	Safety and healt Supporting docu				doficiona	ioo?					Yes Yes	□ No □ No	
	()	Supporting docu	illiellis i	01 00	TIECTIONS OF	dencienc	162 !					165	□ 140	
SAFE	TY &	HEALTH TRAINI	ING											
11.	Cra	ft Training												
	a)	Show craft speci	ific train	ing d	ocumentatio	n for em	ploye	es				Yes	☐ No	
	b)	View certification standards	n where	requi	red by regu	latory or	indus	try	consensu	S		Yes	□No	
	c)	Show document to tasks being pe								ionship		Yes	□No	
COM	IME	NTS:												
12.	Saf	ety & Health Orio	entation	1					No	v Hires		Sı	pervisors	
	a)	View the Safety hires and newly					new		☐ Yes	□ No		☐ Yes	□ No	
	b)	Does program p		•	•		j:							
		· New Worke	r Orienta	ation					☐ Yes	☐ No		☐ Yes	☐ No	
		· Safe Work I	ractice	s					☐ Yes	☐ No		☐ Yes	☐ No	
		 Safety Super 	ervision						☐ Yes	☐ No		☐ Yes	☐ No	
		 Toolbox Me 	etings						☐ Yes	☐ No		☐ Yes	☐ No	
		 Emergency 	Proced	ures					☐ Yes	☐ No		☐ Yes	☐ No	
		 First Aid Pro 	ocedure	S					☐ Yes	☐ No		Yes	☐ No	
		 Incident Inventor 	•						Yes	☐ No		Yes	□ No	
		· Fire Protect		Prev	ention				☐ Yes	☐ No		Yes	□ No	
		· Safety Inter							☐ Yes	□No		Yes	□No	
	٥,	 Hazard Con How long is the 			oarom?				☐ Yes	☐ No		☐ Yes Hours	□No	
1	(c)	Trow long is the	บบยบเสโ	iuii pi	ograffi?							เวบนเร		

_									
	VALADD.	Docume	nt Description				Sub	-Contrac	tor Control
VALARD A QUANTA SERVICES COMPANY		Created B	y: A. Felczak	Doc. Nur	mber	Health,	Safety & E	nvironme	ntal Policy 4.
	A QUANTA SERVICES COMPANY	Date:	Sept. 23, 2003	Revision:	5	Revised by:	A. Felczak	Date:	Jan. 3, 2012
COM	MENTS:	'		1		•		'	
13.	Training Records								
	a) View safety & F	lealth & cr	aft training rec	ords for you	ır en	nnlovees?	1	☐ Yes	□No
	b) Do the training				11 611	ipioyees:		□ 163	
	· ·	yee Identif		virig.				☐ Yes	□No
		f Training						Yes	□ No
	· Name	of trainer						☐ Yes	☐ No
	· Metho	d used to	verify understa	nding				☐ Yes	☐ No
	a) How is training	vorified?	Chook all that	annly)					
	c) How is training Written Tes		Check all that	арріу)	П	Job Monito	rina		
	☐ Oral Test						<u> </u>		
	Performan	ce Test				()			
CON	IMENTS:								
	ture of Company Direc	ctor: of Hea	alth and						
Signat Safety	ture of Company Direc	otor: of Hea	alth and						
Signat Safety Dated:	ture of Company Direc								
Signat Safety Dated:	cure of Company Direct, : OT FILL OUT – INTER	RNAL USE	E ONLY						
Signat Safety Dated:	cure of Company Directives: DT FILL OUT – INTER	RNAL USE	E ONLY actor List						
Signat Safety Dated:	cture of Company Director Conditionally accepta	RNAL USE	E ONLY actor List	ctor List					
Signat Safety Dated:	cure of Company Directives: DT FILL OUT – INTER	RNAL USE	E ONLY actor List	ctor List					
Signat Safety Dated: DO NC Contra	cture of Company Director Conditionally accepta	RNAL USE	E ONLY actor List	ctor List					
Signat Safety Dated:	cture of Company Director Conditionally accepta	RNAL USE	E ONLY actor List		/ork:	site Locatio	n:		

Date: ____

Reviewer: _



Docum	ent [Description				Sub-Co	ontract	or Controls
Created By: A. Felczak			Doc. Nun	nber	Health,	Safety & Envi	ronmer	ntal Policy 4.00
Date:	Sep	ot. 23, 2003	Revision:	5	Revised by:	A. Felczak	Date:	Jan. 3, 2012

EVALUATION CRITERIA

Safety and Health Performance	Acceptable	Needs Improvement
Modified Work cases Medical Aid cases Lost Time Rate Citations Safety and Health Program	☐ ☐ ☐ Acceptable	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Safety & Health Staff		
Safety & Health Program		
Safety & Health Procedures		
Substance Abuse Policy		
English Comprehension		
Safety Meetings		
Subcontractor Programs		
Inspections		
Training		
Requested Copies Provided		
Contractor should be added to the approved contractors lis	t: Yes	☐ No
Audited by:	Date:	

Audited by:	Date:	



Docum	ent D	Description		Sub-Contractor Controls				
Created By:		A. Felczak	Doc. Nur	Doc. Number Health, Safety & Environmental Police			ntal Policy 4.00	
Date:	Sep	ot. 23, 2003	Revision:	5	Revised by:	A. Felczak	Date:	Jan. 3, 2012

4.5.4 SUBCONTRACTOR SITE SAFETY AUDIT CHECKLIST

Area:	Contractor Company Name:	Valard Representative:
Location:	Audit Date:	Contractor Representative:

ITEM

Rating:

O Contractor meets none of the requirements of the category
Contractor meets some of the requirements of the category

10 Contractor meets all requirements of the category

PERSONAL PROTECTIVE EQUIPMENT Comments

Rating

1.	Is proper Personal Protective Equipment being used?				
a)	Head				
b)	Eyes				
c)	Hearing (If applicable)				
d)	Respiratory (If applicable)				
e)	Foot				
f)	Goggles on hard hat (if applicable)				
g)	Flame retardant garment (If applicable)				
h)	Face				
i)	Others				
SA	FE WORK PROCEDURES				
1.	Housekeeping?				
2.	Fall Protection Used?				
3.	Open holes/danger zone barricaded/lights at night?				
4.	Lockout/Tagout procedures followed?				
5.	Chemical labels displayed?				
6.	Food consumed in lunch area only?				
7.	Scaffold				
pro	procedures followed (i.e. kick boards, railings, tagged)?				



Dennis Chevrier

POSITION

Quality Manager

SUMMARY

Dennis has over 43 years of experience and has been with Valard for the past 6 years.

EMPLOYMENT HISTORY

Valard LP

Calgary, AB 2006 - Present

Material Management Logistics/ QA

- Manage materials inventory, manage construction procedure on four substations on 415km of 115kV transmission line for DeBeers/Amec Victor Transmission Line Project in James Bay, ON.
- Inspector of final work for DeBeers project.
- Supervise crews installing poles and framing transmission structures on 115 kV circuits.

Comstock Canada Burlington, ON 2004 - 2005

Assistant Superintendent / General Foreman

- Manage materials inventory, ordering and handling on new 230 kV circuit Brascan Power Project -Anjiami X Sault Ste. Marie.
- Assist the Senior Superintendent in the everyday operations in monitoring the production, quality and efficiencies of the +120 men on the project.
- In association with the Safety Dept., evaluate, develop, and implement job plans, and health and safety policies.
- Monitor the performance and production of contractors working for Comstock Canada.

Powertel Utilities Contractors

Whitefish, ON 2000 - 2003

Lineman/Supervisor

- Construct overhead distribution and transmission line on isolated/de-energized circuits.
- . Supervise crews installing poles and framing transmission structures on 115 kV circuits.
- Use of live line techniques to change 115 kV insulators on towers

Caribbean Utilities Company

Grand Cayman, Cayman Islands 1998 - 1999

Line Manager

- Accountable for the everyday operations of a department of 35 employees constructing and maintaining the electrical system of a highly commercialized and recreational area of the Caribbean.
- Assess, develop and implement training requirements for the Lines Department.
- Prepare, scrutinize, and execute multi-million dollar capital, operations, maintenance and • administrative budgets.

Ontario Hydro

Ontario 1995 - 1998

Custom Operations Manager

- Accountable for the safe and reliable source of electrical power to over 9,000 residential and industrial customers of Manitoulin Island and surrounding area.
- Manage a local work force of 30 employees consisting of clerical, forestry, lines and mechanical staff.
- Develop, present and monitor a health and safety program for the multi trade work force of this operations center.
- Develop, communicate and monitor environmental policies that adhere to or exceed legislative requirements (due diligence).

Ontario Hydro

Ontario 1979 - 1995

Area Line Supervisor

Supervise a staff of highly trained employees in the construction, maintenance and inspection of rural lines serving over 35,000 heavy industrial, commercial, and residential customers and 400 kms of transmission circuits (Voltages from 115 kV - 500 kV) feeding the provincial grid system.



- Trained and experienced in the installation of implosive and standard compression sleeves of overhead conductors.
- Supervise the stringing of overhead transmission conductors (conventional and tension stringing) of various conductor sizes.
- Plan and conduct seminars on training and safety meetings for individual and group sessions.
- Evaluate, develop, write, and instruct new job procedure

Ontario Hydro

Ontario 1969 - 1979

Journeyman Lineman

- Construct and maintain overhead and underground distribution circuits on voltages from 12 kV to 44 kV. Work methods include the use of rubber gloves, live line tools, and insulated aerial devices.
- Construct and maintain transmission circuits on wood pole and steel tower structures on voltages from 115 kV to 500 kV. Work methods included the use of live line tools and insulated aerial devices.
- Perform helicopter patrols analyzing conditions of distribution and transmission circuits and preparing detailed reports.
- Instruct 4th year apprentices at the Ontario Hydro Training office in Orangeville.

- Professional Development
- Job Planning
- Work Area Protection
- Utility Work Protection Code
- Live Line Tool Techniques
- High Voltage Electrical Awareness
- Standard First Aid and CPR (St. John's Ambulance)
- Bucket Rescue and Escape
- Pole Top Rescue
- Grounding and Bonding
- TDG
- Transportation of Regulated Waste
- WHMIS
- Fall Arrest
- Certified Health and Safety Member



Guy Corbiere

POSITION

Conductor Superintendent

SUMMARY

Guy has been a part of the Valard team for 6 years

EMPLOYMENT HISTORY

Valard Construction LP Calgary, AB 2006 - Present Supervisor - Hanna Region Transmission Development Project-ATCO Electric

- Supervisor of tension stringing activities for double circuit 240kV line
- Supervisor or sagging operations
- Co-ordinate tying in, dead ending and splicing activities

Supervisor - Debottlenecking Project-SNC Lavalin

- Supervisor of tension stringing activities for double circuit 240kV line
- Supervisor or sagging operations
- Co-ordinate tying in, dead ending and splicing activities

Supervisor - Bruce x Milton 500kV-Hydro One

- Supervisor of tension stringing activities for double circuit 500kV line
- Supervisor or sagging operations
- Co-ordinate tying in, dead ending and splicing activities

Foreman - Manitoba Hydro Transmission Project

 Direct assembly and erection activities on 240kV lattice tower line running from Snow Lake MB to The Pas, MB

Foreman - Kearl Oil Sands Substation

Oversee the construction and tie in to constructed transmission and distribution lines.

- Construction Safety Training System
- High Energy Joining Blasting Operations Permit
- Equal potential Bonding and Grounding Training
- Flagperson Training
- Radial Book Digger Training
- Transportation of Dangerous Goods
- WHMIS
- Journeyman Powerline Technician
- First Aid/CPR
- Fortis-Environmental Awareness Training
- Hydro One Electrical Awareness
- PME Training- Crawler Tractor/Dozer



Lonnie Eirickson

POSITION

Construction Supervisor

SUMMARY

- Lonnie recently joined Valard last year and comes with over 22 years of experience and over 1000 km as Foreman, Lineman and Operator
- Power lines worked on: Transmission & Distribution 500 kV, 230 kV, 138 kV, 115 kV, 72kV, 66kV and 25 kV

EMPLOYMENT HISTORY

Valard Construction LP

Calgary, AB 2011 - Present

Stringing Superintendent

- Topping towers, erection and stringing done by helicopter
- String wire, tension & slack, clamping in the wire, sagging, dead-end wire

Manitoba Hydro Herblett-Ralls TL

2010 - 2011

Construction Manager

- Aerial framing of wood structures
- Framing wood structures
- Aerial framing of wood structures
- Framing wood structures

Hydro One Networks Inc.

Ontario 2009 – 2010

Foreman and Construction Manager

- Bruce x Milton Reinforcement
- Canadian Projects-Lower and Upper Clowhom Transmission Line

ATCO

Peace Region, AB 2007

Foreman

Foreman on various assembly, framing, setting, erection and stringing projects

Weyerhaeyser

2007

Foreman

Foreman on 15kV Tie Line

CNRL Horizon

2006 – 2007

ATCO

ForemanForeman on substation and transmission project

Foreman

2003 - 2004

Foreman on Athabasca River Crossing, Transmission project

Manitoba Hydro

Glenboro, MB

Foreman

Installing a Gulfport 230 kV line from Glenboro, MB to the USA border.

- Journeyman Powerline Technician-Red Seal #J-10-96063
- Aerial Work Platform
- Cargo Securement
- CSTS 3.2
- First Aid / CPR
- Flagperson Tranining
- High Energy Joining
- Hours of Service
- OSSA Regional Orientation
- Pre & Post Trip Inspection
- Safe Use and Insattation of Xeconex
- Transportation of Dangerous Goods
- WHMIS



Andy Felczak

POSITION

Vice President Health & Safety

SUMMARY

- Over 12 years of experience in Health and Safety
- Extensive Management, Leadership and Human Relations Experience

EMPLOYMENT HISTORY

Valard Construction LP Edmonton, AB 2003 – Present

Health Safety and Environmental Manager

- Development and maintenance of the Health, Safety & Environmental Manual
- Developed a Behavioral Based Observation Program, Hazard Analysis Process, and At Home Safety Program
- Responsible for the implementation of a Modified Work process and a Recognition Program
- Responsible for WCB and regulatory updates, for British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Yukon, Northwest Territories and Nunavut
- Responsible for the Training and development of the workforce
- Responsible for the overall Health and Safety process, developed a HS&E Manual/Policies and Procedures and Safety Handbook
- Member of the COAA Safety Committee and ACSA

Bird Construction Co. Edmonton, AB 2002 - 2003

Health Safety and Environmental Manager

- Development and maintenance of the Health, Safety & Environmental Manual
- Developed a behavioral based observation program, Hazard Analysis process as well as an At Home Safety Program
- Recipient of the following awards:
- COAA Construction Owners Association of Alberta Award for HS&E Program development and implementation process
- ACSA- Alberta construction Association Award for outstanding achievement in the Health and Safety program- Developed, Incident Reporting and Observation database Programs to track trends
- Responsible for WCB, injury reduction and associated correspondence with British Columbia, Alberta, Saskatchewan and Ontario Boards
- Responsible for WCB, in British Columbia, Alberta, Saskatchewan and Ontario

Alliance Pipeline Ltd.

Calgary, AB 1999 - 2001

1997 - 1999

Safety Advisor Canadian/USA Operations

- The development and implementation of the Web based Health and Safety Manual System, a Safety Handbook and developed an Environmental program for the field personnel
- Developed a training/orientation program and performed audits for station preparedness
- Worked with the National Energy Board in ensuring that the Health Safety and Environment program met the NEB requirements
- Introduced a Behavior Based Safety Program
- Project Lead on the Web based Incident Reporting System developing team

Syncrude Canada Ltd. Fort McMurray, AB

Project Safety Manager Liason for Kellogg Brown and Root

 Overall design, implementation, coordination and performance monitoring of safety programs for Syncrude's Debottleneck II Project being constructed by Kellogg Brown and RootDesigned and implemented the Safety Recognition program, which is based on a behavioral based safety



foundation.

- Adapted and designed the Total Safe Task Observation safety program for use on the site, and have conducted training of key management personnel in its principles
- Involved in decision-making and advisory role to provide safe work procedures and plans for the construction and startup of the plant
- Conducted ongoing analysis and review of incidents for the purpose of continually improving
 procedures, work practices and safety performance of the project. Played a key role in developing
 strategy management of the construction project
- Developed a Construction orientation book with an overview of the Syncrude plants. Responsible for WBC related issues and analyzing injuries with recommendations for area improvements
- Updated senior management on project's progress and successes

Syncrude Canada Ltd. Fort McMurray, AB 1990 - 1997

Senior Loss Management Safety Specialist

- Supervising all construction activities in the Upgrading Area
- Overall responsibility for the implementation of the Environmental, Health, Safety and Loss Management Program, patterned after the DNV/ILCI program in Upgrading, which is a large-scale oil refinery with approximately 700 employees and 500 contractors
- Implemented several EHS and Loss Management issues such as Change Management, Task
 Analysis and Task Observations including the development of an Oracle based program for its use
- Revision, update and auditing of the Loss Management Standards to reflect and address the Company's redesigned organization
- Supervision of the Safety Specialists during turnarounds.
- Coordinated and lead accident/incident investigations, including appropriate follow-up to prevent reoccurrence of incidents
- As a chairman of Work Protection Code # 8 responsible for updating senior management including COO of changes

LICENSES & CERTIFICATION

Occupational Health and Safety Program Instructor affiliated with the University of Alberta at Keyano College

ADDITIONAL EDUCATION / TRAINING

- WCB Claims Management Safety and Loss Management Trainer
- Leadership Development Course
- Process Hazards Analysis Leader's Course
- Analytical Troubleshooting Kepner-Tregoe
- Incident Command System Training
- Dupont Safety Management Course
- DNV Accredited Safety Auditor's Course
- DNV Modern Safety Management Course
- Practical Guide to Loss Management Course
- 3M Respirator Trainer the Trainer Instructor's Course
- Hazmat WHMIS Train the Trainer Course
- OH&S/Environmental Due Diligence Course
- Prime Contractor's Role Course
- Industrial Scientific Instrument Maintenance and Calibration Course
- Dale Carnegie Course
- Claims Management Course (WCB)
- Claims Appeal Process Course (WCB)



- Behavior Safety Management Course
- Fall Arrest Trainer Course
- Tap Root Investigation Training

PROFESSIONAL AFFLIATIONS

- President of the Alberta/NWT and National Board Member of the Canadian Society of Safety Engineering 1999-2005
- Chapter chair of Fort McMurray Chapter of Canadian Society of Safety Engineering 1992 1999
- Association of Canadian Registered Safety Professionals (CRSP Designation)
- American Society of Safety Engineers since 1995
- Alberta Construction Safety Association since 1992
- Construction Owners Association of Alberta since 2001
- Board of Canadian Registered Safety Professionals Board Of Governors



Peter Germann

POSITION

Materials Manager

SUMMARY

Peter has been a part of the Valard team for 7 years

EMPLOYMENT HISTORY

Valard Construction LP

Calgary, AB 2005 - Present

Supervisor

- Northern Transmission Line, BC
- 400 Km, 1100 structure 1 cct tower line
- Initiate start up activities including: material yard layout and camp set up, develop resource plan for manpower and equipment for receiving, handling, and hauling activities
- Coordinate material deliveries to main yard and remote lay down yards
- Set up inventory management system and business processes developed on the BXM line including implementation of accounts payable and purchasing processes.

Materials Manager - Bruce to Milton, ON

- 400 Km, 720 structure 2 x cct 500 kV tower line
- Developed materials processes
- Purchased and implemented a materials management system
- Through standardizing processes and the system, the materials team was able to virtually eliminate material delays for construction crews due to material issues.
- A planning model was developed which coordinated materials activities with construction which resulted in balanced inventories, minimized hauling and unnecessary handling of materials

Hydro One

Ontario 1998- 2005

Manager of Customer and Business Services

- Refinement of business processes focused on unique elements of the customer community
- Project management targeted on the contractor community

Zone Coordinator

- Re implement lines scheduling to six Ops Centres and realign scheduling department to enable work flows as per current business process
- Review touch points with Field Business Centre staff to align the business flows with the scheduling processes
- Leadership role in the provincial coordinators forum in the development of:
 - Contract Management training for provincial lines
 - Contractor work flows
 - Consolidated contractor payment process and account redistribution, as well as process support for other zones as requested
 - Development of the scheduling technician duties to align with the Project Managers role
 - Development of H1 specific Project Management course for Scheduling Techs, UTS and ADET
 - Development of Estimating Technical training package targeted at zone needs
 - Implementation of Estimating Technician scheduling in Z2
 - Implementation of Meter Technician scheduling in Z2
 - Development of Project Manager role to leverage "lessons learned" from variance reviews on project work



Process Development Team Lead

- Responsible for continuing with the work begun by OPEX on the development and implementation of process specific to Provincial Lines. Main assignments were:
 - Develop and implement Lines Scheduling (projects/program) assuming work done previously by a team working parallel to OPEX and using systems previously selected by that team
 - Develop and implement Line Scheduling for demand work
 - Develop and implement the Estimating Tool and ensure compliance with the Distribution Service Code
 - Develop and implement materials processes for demand and project work
 - Work with Zones to develop issues teams and work through issues of a provincial nature and communicate solutions through key contact groups
 - Develop communication and change plans for leadership groups to assist in move staff through significant changes
 - Conduct regular issues meetings with the coordinators to work through scheduling related issues including fleet and materials

Operational Excellence (OPEX)

- The focus of this project was process re-engineering with two different job titles:
 - Provincial Line Representative on the New Connect Team resulting in the re-engineering of the New Connection Process based on customer feed back
 - Implementation Coordinator upon re-engineering of that division

Implementation Coordinator PEP Project

- Implementation of the Work/Asset Management Systems (Passport)
 - Alignment of training with the staff requirements and coordination of training sessions and related logistics
 - Project management- conduct daily meetings with the various development teams and work through issues, set priorities and status milestones
 - Develop a Help strategy for field staff and make it operational to coordinate with the system
 - Coordinate the deployment of the system to the field sites across the province

Implementation Coordinator Customer Service System

- Implement the newly developed Customer information system in the field
 - Communicate and change management issues pre and post implementation
 - Conduct mock- ups of conversion activities across the province
 - Coordinate field training and site support
 - Assist in the transitioning from project to live operation including sustainment activities
 - Safety Inspector during the ice storm to perform crew inspections and provide focus on the ever changing safety issues throughout the rebuild of the distribution system

- Change Management Skills-Conestoga College
- Facilitation Skills-Conestoga College
- Effective Speaking-Conestoga College
- Management by Objectives and Results-Conestoga College
- First Line Supervision Motivation and Leadership- Conestoga College
- Hydro One Electrical Awareness
- Quanta (PISUP)
- Valard Construction Orientation
- Achieve Program
- Safety Meeting Effectiveness



- FLM Development Program
- Project Management
- Effective Supervision I, II, III.

EDUCATION & OTHER TRAINING

Project Management (Generic and H1 Specific) - Conestoga College



Nalin Mistry

POSITION

Project Controls/Scheduling and Planning

SUMMARY

- Dynamic, self-motivated & energetic professional, with bachelor's degree in engineering and having around 32 years of versatile experience in the field of Construction/Project/Contracts Management and Construction for the full project cycle, including procurement.
- OSPE Ontario Society of Professional Engineers Resident Associate Membership # 0140922.
- PMI Membership, Membership ID: 1747595.

EMPLOYMENT HISTORY

Valard Construction LP Calgary, AB 2010 - Present

Project Manager / Quality Manager / Assistant Project Manager

- 160 Million (Electrical Portion only) as Assistant Project Manager, Bruce to Milton Transmission Refurbishment Project, Hydro One Networks Inc.
- 9.4 Million (Electrical Portion only) as Project Manager & Quality Manager, 230kV Transmission Line & Switchyard- Design, supply, installation & commissioning.
- 9 Million as Quality Manager, HRTD Bundle T7 Transmission Line Construction, ATCO
- Coordination of the project regarding project aspects by acting at the interface of Client, Consultants and Construction team
- Review / follow-up / initiate incoming and outgoing correspondence between all concerned parties (Client, Consultants, Suppliers, Sub-Contractors, etc.)
- Risk Management
- Assist in Review & update of Construction Schedule
- Maintaining Logs (Change logs RFI & CCN logs, Submittal log, Site Instruction log etc.)
- Change Order Management:- Identify & initiate Change Order Items with Clients for Contract Amendment
- Overseeing the entire Quality Management Program.
- Review progress, preparation of invoices & follow up for the payments

Varcon Construction Corporation Pickering, ON

2010

Project Manager

- Rosebank Sanitary Sewage Pumping Station & Forcemain, Pickering, ON
- Woodstock Art Gallery Renovation, Woodstock, ON
- Coordination of the project regarding all project aspects by acting at the interface of Client, design consultants, Sub-contractors & other vendors & suppliers
- Review / follow-up / initiate all incoming and outgoing correspondence between all concerned parties (Client, Consultants, Suppliers, Sub-Contractors, etc.)
- Risk Management
- Participating on the entire Quality Management Program
- Review & update Construction Schedule
- Review, follow up and expedite all submittals & shop drawings
- Maintaining Logs (Change logs RFI & CCN logs, Submittal log, Site Instruction log etc.)
- Technical and commercial comparison & negotiations with Vendors and suppliers, finalization of Letter of Intents, Sub-Contracts, Purchase Orders, expediting the material deliveries
- Change Order Management:- Identify, initiate and negotiate Change Order Items with Clients for Contract Amendment
- Review progress, preparation of invoices & follow up for the payments



North America Construction Ltd

Ontario 2008 - 2010

Project Manager

- 46.78 Million Water Treatment Plant Expansion, Thunder Bay, ON
- 58.54 Million Water Pollution Control Plant, Secondary Sewage Treatment Facilities Upgrade, Thunder Bay, ON
- Approx. 8.00 Million as Cost Control Manager for Enbridge projects at Manitoba & Saskatchewan
- 271 Million as Assistant Project Manager, Bruce to Milton Transmission Refurbishment Project, Hydro One Networks Inc.
- Coordination of the project regarding all project aspects by acting at the interface of Client, design consultants, Project Management Consultants, Sub-contractors & other vendors & suppliers
- Review / follow-up / initiate all incoming and outgoing correspondence between all concerned parties (Client, Consultants, Suppliers, Sub-Contractors, Lawyers etc.)
- Risk Management and Claim Management
- Working with Quality Manager towards successful implementation of Quality Management Program.
- Review of Construction Schedule, guide Scheduling Team for proper sequencing, forecast cost to completion
- Technical and commercial comparison & negotiations with Vendors and suppliers, finalization of Purchase Orders, expediting the material deliveries
- Change Order Management:- Identify, initiate and negotiate Change Order Items with Clients for Contract Amendment
- Review progress for preparation of invoices & follow up for the payments
- Dispute resolution as related to the Warranty & deficiency issues on Thunder Bay projects
- Take appropriate action on the Request for service (RFS) received for warranty/defects during the maintenance period
- Follow up suppliers and sub-contractors for material/parts/work related to the RFS

AMAN Building Corporation

Edmonton, AB 2007 - 2008

Project Manager

- Renovation Aurora Charter School, Edmonton, Alberta, Canada
- PowerComm Inc.: Office & Warehouse building at Edmonton, Alberta, Canada
- Country Hills Toyota: Car show room expansion, Calgary, Alberta, Canada
- 102 Street Condominiums, Edmonton, Alberta, Canada
- Overseeing the projects as Single point contact
- Coordination of the project regarding all project aspects by acting at the interface of Client, design consultants, Sub-contractors & other vendors & suppliers
- Review / follow-up / initiate all incoming and outgoing correspondence between all concerned parties
- Attending pre-bid and regular Site Visits & Pre-award meetings, chair various progress meetings and preparation / review / finalization and approval of minutes of meetings
- Overseeing the entire Bid process, material & manpower pricing, direct/indirect overheads, finalization of technical & commercial bid packages, submission and negotiation with Clients
- Follow up, expedite & Review of contractor and sub-contractor submittals (drawings, data sheets, other submittals etc.) as per Contract schedules and check compliance with the specifications and the scope of works
- Preparation of Construction schedules, Expediting and tracking planned progress / schedule vis-àvis actual and suggest remedial measures, if needed to ensure that all milestone are met as per the Contract
- Preparation of all Requests for quotations (RFQs), Purchase Requisitions (PRs), Draft Purchase Orders.
- Technical and commercial comparison & negotiations with Vendors and suppliers, finalization of Purchase Orders, expediting the material deliveries to meet overall schedule
- Change Order Management:- Identify, initiate and negotiate Change Order Items with Clients for Contract Amendment
- Review progress for preparation of invoices & follow up for the payments

Integrated Contracting Company

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any Project Manager

Saudi Arabia

BI-3178 and BI-3179: SGP & UGP Sulfur Plants Upgrade, Saudi Aramco
 L/G Coalescer @ PP (Polypropylene) Plant at Tasnee Petrochemicals, Jubail

Nalin Mistry - 2



2003 - 2006

- K. O. Drums @ PDH (Propane Dehydrogenation) Plant, Tasnee Petrochemicals, Jubail
- Pre-Feasibility Studies for PET, Ammonia/Fertilizer Plants and Caustic Soda Plants
- Complete Bid Process (Technical & Commercial Proposals) for the following projects:
 - Saudi Aramco Req. # 3000096118: DR-1 Abqaiq Pump Station at Abqaiq GOSP5
 - Saudi Aramco Req. # 3000088594: Intrusion Detection & Assessment System Replacement (IDAS), Ras Tanura Terminal
 - Saudi Aramco LSPB BI-10-03093: Replace Pump Stations 4 & 5, Abgaiq Plants
 - Sharg 3rd Expansion Project, Jubail: Contract # 07/1795: Tender for Building Works
 - Tasnee Petrochemicals: Installation & Commissioning of Silane Feed Pumps
 - Tasnee Petrochemicals (Reference: MOC-2004-UTL-0028): Modification of 28 inch Sea Water Pump Minimum Flow Pipeline
 - Tasnee Petrochemicals (Reference: MOC-2004-UTL-0035): Modification of 72 Inch Sea Water Return Line Header
 - Dammam Port: Supply & Installation of Perimeter Security Fence, Surveillance Cameras, Intrusion Detection System & Lighting Units

Al-Othman Consultants

Saudi Arabia 1994 - 2001

Project Engineer, Construction Manager & Quality Auditor

- On & Off-site management of large residential & commercial construction projects
- Working with owners, architects & consultants regarding all project aspects, co-ordination between various contractors and agencies and expedite sub-contractors as needed
- Tracking construction progress and assured on time project completion
- Responsible for maintaining quality standards and specification compliance
- Overseeing the Quality Management Program
- Review, approval and implementation of all submittals, progress and final billing, contract and owner change orders & change order management
- Conducting weekly progress meetings, preparation of weekly & monthly progress reports
- Auditing of the system on a regular basis, issuance of NCRs and assist closing of the same
- Management meetings and reports & meetings with external auditors
- Instrumental in getting the company ISO 9001 certification
- Interaction with Clients, Architects and Consultants & co-ordination of activities between various sub-contractors
- Preparation of Pre-qualification documents & bid proposals, contract negotiations & finalization
- Execution of projects, scheduling, material & manpower management, finalization of rates for suppliers and sub-contractors
- Material submittals, preparations and follow up of invoices and change orders, change order management

Conwood Group of Companies

Mumbai, India 1992 - 1994

Chief Engineer

- On & Off-site management of large mid & high rise residential & commercial construction projects & co-ordination between various contractors and agencies
- Working with owner, architect & consultants regarding all project aspect, tracking construction progress and assured on time completion, responsible for maintaining quality standards and specification compliance
- Conducting weekly progress meetings at site with Contractors, Architects & Consultants, including
 making agenda, minutes of meetings & preparation of weekly & monthly progress reports and
 presenting the same in person to the Board of Directors
- Review, approval and implementation of all submittals, billing & change orders & change order management
- Expedite sub-contractors as needed
- Overseeing the project quality requirements and participate as necessary



LICENSES & CERTIFICATION

- Dynamic, self-motivated & energetic professional, with bachelor's degree in engineering and having around 32 years of versatile experience in the field of Construction/Project/Contracts Management and Construction for the full project cycle, including procurement.
- Basics of Supervising CSAO, Participant ID 154591
- NAC Supervisory Training Course
- Internal Training for Primavera
- Safety training (for Saudi Aramco & SABIC at Saudi Arabia) including WHMIS at Toronto,
 Canada
- Training Certificate as Internal Quality Auditor, ISO 9001 (FAHSS/TUV)

EDUCATION & OTHER TRAINING

B. Eng. Honors (Civil Engineering) - V.J.T.I., University of Bombay, India, May 1980



Marc Ouimet

POSITION

Senior Manager Lands Forest and Environment

SUMMARY

2009- Present

- With over 22 years of experience managing the right-of-way and environmental aspects of linear projects
- Marc has been a part of the Valard team for over 3 years.

EMPLOYMENT HISTORY

Valard Construction LP Calgary, AB

ROW Manager – OPG/Kiewit Lower Mattagami River Transmission Line

ROW Manager - Northwest Transmission Line for BC Hydro

Project Manager - Toronto Hydro Distribution

Project Manager - ATCO Wesley Creek to Meikle

New double circuit 240kV Steel Tower Transmission Line operating at 144kV

Project Manager - SNC Lavalin SW River Foundations

BP Noel 138kV TX Line

Ouimet Cunningham Consulting and Research 1990 - 2010

President

- Consultant to ATCO Electric 1986-2009
- 240kv double circuit Transmission lines: Britnel to Wesley Creek AE 1st Nations Consultation, Right of Way Construction Manager, Liase through Tower construction
- Rainbow Lake to Arc en Ciel 144kv Transmission Line 1st Nations Consultation and Approvals
- Wesley Creek to Meikle AE 1st Nations Consultation, Gov. Approvals, Right of Way Construction
- Consultation /Liason between AE and 1st Nations
- New Distribution lines supervisor Right of Way Group AE
- Distribution Maintenance Coordinator Right of Way Group AE
- Right of way Coordinator for Northlands Utilities 1998- current

- Leadership for Safety Excellence
- Principles of Health & Safety Management
- Prime Contractor
- Risk Management
- Standard First Aid
- Utility Tree Worker
- Aerial Work Platform Program
- Advanced Boom Truck Safety for Utility Operators
- Class 5 License With Air Brake Endorsement Program
- Level 3 Alta Link Safety Certification
- Ground Disturbance Level II
- H2S
- ATV
- CSTS
- Crane operator (boom truck)
- Equipment operator
- Zoom boom operator
- Aerial platform operator (genie) (JLG)



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1st Nations Communications/Consultations



Jody Rideout

POSITION

Project Manager

SUMMARY

- Jody has been a part of the Valard team for over 6 years.
- Experienced in Primavera Scheduling in both maintenance and development of schedules.

EMPLOYMENT HISTORY

Valard Construction LP Calgary, AB 2006 – Present

Project Manager

ATCO NE LOOP Project

Yukon Energy Corp. 138kv TL Stage 2

British Petroleum Major Noel Project 138kV Transmission Line (Engineer, Procure & Construct)

- Managed all aspects of the job preparation including bidding, material ordering, scheduling, construction planning, cost analysis and subcontracts management.
- Continued to manage the project's needs with regard to material, costs, billing, contractual issues, subcontracts, construction, engineering, quality, safety, personnel, equipment and client, public & native relations.

Cloudworks 360kV Tap Rebuild (Procure & Construct)

 Managed all aspects of the dismantling and construction to redirect a 360kV transmission line in to a newly constructed substation including, material orders & management, cost tracking, billing, line design changes, development & monitoring of the safety program and monitoring of the quality program. Job consisted of steel towers, wood pole structures and monopole structures.

Clowhom Hydro Project Powerlines (Procure & Construct)

- Managed all aspects of the construction of two 138kV transmission lines in an isolated area with difficult terrain including, material orders & management, cost tracking, billing, development & monitoring of the safety program and monitoring of the quality program. The work also involved significant line design
- Changes and alternative construction methods that was coordinated with the clients engineering.
 Job consisted of two designs of wood pole, vertical standoff structures.

Dokie Wind Project Powerlines (Procure & Construct)

- Managed all aspects of the construction of a 230kV transmission line and 35kV collector system in an isolated area, over difficult terrain. Job consisted of wood pole, vertical standoff structures.
- Also acted as material and quality manager

Project Manager/Estimator

 Prepared Bid Proposals for various projects, finalizing cost and project details through to submitting the project bid.

Quality Control Supervisor

CNRL 260kV Transmission Line (Engineer, Procure & Construct)

 Ensured the quality of installed items for the 260kV Transmission Line and the two accompanying substations, finally developing the turnover package and providing the client with several complete packages before returning to university for the final year of a BSc.Eng.



Project Assistant

Assisted with project bids and preparing project documents and plans

Project Assistant

Firebag 260kV Transmission Line (Engineer, Procure & Construct)

- Initially joined the project management team in the early stages of the Firebag 260kV Transmission
 Line Project to prepare construction, safety and quality plans, later transitioning o the onsite
 management team to kick start the project and manage contractual, construction and day-today
 project items.
- Managed the majority of aspects from commencement to completion of the contract and administration for the Fort St. John Area Reinforcement Project involving the construction of a 138 kV Transmission Line.

Comstock Canada Ltd.

Fort McMurray, AB

Progress Specialist (ACLS),

- Main responsibility was to assess man-hours and costs for Requests for Information and Engineering Change Notices with relation to work cost changes and Halliburton's Automated Craft Ledger System.
- Preformed various data analysis tasks
- Developed an Excel based complementary craft ledger system to assist ACLS group

Comstock Canada Ltd.

Wawa, ON

On Site Project Coordinator

- Tracked and documented progress which was presented to the client on a weekly basis.
- Developed an Excel based payroll system, and managed the explosives inventory and handling procedures and, with assistance, developed and created the majority of the work procedures catalogue for the project
- Also assisted in multiple areas of the project such as: materials management, helicopter flight management, camp management, computer, network, communication duties, and day to day operations and issues.

Comstock Canada Ltd.

Saint John, NB

Heavy Equipment Operator

 The majority of work consisted of operating a Nodwell 110 tracked vehicle and various other construction equipment.

LICENSES & CERTIFICATION

- WHMIS
- Alberta Construction Safety Association
- Construction Safety Training System
- Electrical & Utilities Safety Association of Ontario's Electrical Safety & Awareness / High Voltage
- Electrical & Utilities Safety Association of Ontario's Hydraulic Aerial Equipment Update
- Canada Safety Council ATV Training Course
- Level one First Aid
- OSSA
- H2S Alive,
- ATV Training,
- CSTS
- BP 4PAC
- Supervisor Training

ADDITIONAL EDUCATION / TRAINING

- University of New Brunswick, Fredericton, NB-Bachelor of Business Administration (BBA), 2002
- University of New Brunswick, Fredericton, NB-Bachelor of Science in Engineering (BSc.Eng), 2008



Joe Rideout

POSITION

Structures Superintendent

SUMMARY

Joe has over 40 years of experience as a lineman.

EMPLOYMENT HISTORY

Valard Construction LP

Calgary, AB 2006 - Present

Supervisor

- Supervised construction of 144kV Double Circuit Overhead Line Construction from Ring Creek to the future Arcenciel Substation.
- Supervised construction of 7L93/7L122 & 7L109/7L64 144 kV Double Circuit Steel Pole Line Construction between the Rainbow Lake Substation and future Arcenciel Substation.
- Yukon Energy, Pelly/Carmacks, Yukon: Construction of 135 kms. of 138 kV H-frame transmission line with extensive helicopter construction, 2008.
- Planned and supervised construction of 260 kV Transmission Line steel lattice towers at the Suncor Firebag site.
- Supervised construction involving the installation and removal of a temporary line and the installation of footing and self-supporting towers.

Comstock Canada Ltd.

Calgary, AB 2004

Superintendent

 Planned and coordinated all construction aspects of the Anjigami and Sault 230 kV Transmission Line.

Greens Construction

Calgary, AB 2002-2003

Superintendent

 Planned and coordinated all construction aspects of a 230kV steel tower transmission line, including the removal of an existing line.

Hi-Line Construction

Paynesville, MN 1999-2001

Superintendent

 Planned and coordinated all construction aspects of a 230kV steel tower transmission line, including the removal of an existing line.

Comstock Canada Ltd.

Calgary, AB 1987- 1998

Superintendent

- Worked on various projects throughout Canada, planning and coordinating all aspects of the construction process
- Worked in Newfoundland, Nova Scotia, Ontario, Manitoba and British Columbia on 138kV, 230kV and 500kV transmission lines with Comstock Canada.
- Worked in Newfoundland, Nova Scotia, Ontario, Manitoba and British Columbia on 138kV, 230kV and 500kV transmission lines with Comstock Canada.

F.A. Tucker

Nova Scotia 1978 - 1987

General Foreman/Superintendent

- Worked in Nova Scotia as a General Foreman on 346kV, 230 kV, 138 kV and 69kV Transmission Lines of varying configurations.
- Worked in Newfoundland and Prince Edward Island as a General Foreman and as a Superintendent on 230 kV and 138kV transmission lines.



BG Checo International Ltd.

New Found Land 1973 – 1978

Foreman

Worked in Newfoundland on distribution and 138kV Transmission Lines

Fischback and Moore

New Found Land 1972

Lineman

Worked at Churchill Falls on 735kV Transmission Line

Worked at Churchill Falls on 735kV Transmission Line

Comstock Canada Ltd.

Calgary, AB 1972

1971

Lineman

Dominion Bridge New Found Land

Lineman

Worked at Churchill Falls on 735kV Transmission Line

- Alberta Construction Safety Association Construction Safety Training System (CSTS)
- Electrical & Utilities Safety Association of Ontario's Electrical Safety & Awareness / High Voltage
- Electrical & Utilities Safety Association of Ontario's Hydraulic Aerial Equipment Update
- Canada Safety Council ATV Training Course
- Oil Sands Safety Association Regional Orientation (OSSA)
- Power Line Safety Hazards Program
- Power System Safety Protection Certificate



M	ike	Ries

POSITION

Project Manager

SUMMARY

 Mike Ries has 25 years of experience in the high voltage discipline from construction, operations, construction management and safety. He has experience in distribution, transmission, substation, and live line construction methods.

EMPLOYMENT HISTORY

Valard Construction LP Calgary, AB

Present

Project Experience Project Manager

- Responsible for the delivery of Project Requirements, Quality Assurance, Safety, and Client Interaction on the following Projects:
- BC Hydro Northwest Transmission Line Project Manager on 350km of 287kV lattice steel line.
 July 2012 present
- Hydro One Bruce X Milton 500kV, Milton Ontario. Project Manager on 180km 500kV double circuit tower line in Mid Western Ontario. January 2011- June 2012
- Project Supervisor
- Responsible for overall safety, daily coordination of men, equipment and schedules. Tracking of LEM's, time sheets, change orders and materials. Construction Management, Quality Assurance, Safety, and Client Interaction on the following Projects:
- Valard Construction, Milton, Ontario. Construction Management for Bruce X Milton 500kV project for Hydro One. May/09-current.
- BCTC/SNC-Lavalin, Harrison Lake, British Columbia. Construction Management for Upper Harrison Terminal Station Project. Construction of 360kV station and associated line work for the interconnection between IPP and BC Hydro. Aug/08- April/09
- Imperial Oil Resources, Cold Lake, Alberta. Construction Management for 11km 144kV and Safety Supervision for new substation. March08/July 08
- Albian Sands Expansion 1, Fort McMurray, Alberta
- 11km 260kV double circuit lattice tower Transmission Line, one Greenfield substation and addition to an existing facility.
- Oct.07/March08

SNC Lavalin ATP Transmission Inc

Construction Manager

Calgary, AB

- Responsible for project safety, construction management, quality assurance and quality control, client interaction and contract management on the following projects:
- Completed a transformer addition to an existing 138kV-25kV substation. Including circuit switchers, protection and controls.
- Encana/Hussar, 44km 138kV Transmission Line, Substation addition to an existing energized facility, and new substation.
- 889L JEEP, AltaLink, Red Deer, Alberta, Canada. Construction Manager for 2.4 km of 138 kV transmission line. Project involved the salvage of 2.4 km of 25 kV distribution replaced with 2.4 km of 138 kV with 25 kV underbuild, .5 km of 25 kV distribution underground and installation of deep ground wells.
- 50 Line Underground Conversions, AltaLink, Calgary, Alberta, Canada. Construction Manager for the conversion of 2.0 km of existing 138 kV overhead transmission line to underground. The project included the installation of a duct bank, splicing vaults, all cable installation and splicing, and five 140 m deep ground wells.
- 123L Rebuild, 14km of 69kV with 25kV under build, continued with another 12km of 69kV rebuild
- 911L Tower replacement, replace two 240kV towers on the banks of the Old Man River
- Three Sisters Mountain Village, 4.5km of 138kV double circuit underground, 3km 25kV underground installed on existing powerline ROW in Canmore, Alberta.



TransAlta Utilities

Power Lineman

- Responsible for the safe operations, maintenance, and construction of distribution and transmission lines
- Up to and including 500kV
- 25 kV rubber glove application
- Hot stick and bare hand methods up to 500 kV
- Implosive training
- Exit-entry from helicopters
- Cellular installation on high voltage towers

R.S Line Contractors

Power Lineman

- Responsible for the safe construction of distribution and transmission lines
- Distribution underground and overhead
- Transmission lines and tower assembly
- Construction of substations

Phel Patton Construction

Power Lineman

- Responsible for the safe construction of distribution and transmission lines
- Distribution underground and overhead
- Transmission lines
- Construction of substations

LICENSES & CERTIFICATION

- Safety First Aid/CPR
- WHMIS
- PIC
- Fire Training
- High Energy Joining (Implo)
- Alberta Construction Safety Training System
- Transportation of Dangerous Goods
- Fall Protection & Tower Rescue
- Level 3 PSSP (BC Hydro)
- Class16 D/L (includes motorcycle)

ADDITIONAL EDUCATION / TRAINING

- 2006-2007 Pursuing the U of A Applied Sciences Occupational Health and Safety Certificate Program. University of Alberta, Edmonton, Alberta, Canada.
- Pursuing ACSA (Alberta Construction Safety Association) NCSO Designation
- Project Management Certificate, Northern Alberta Institute of Technology (NAIT), Edmonton, Alberta, Canada.
- The New Manager I & II, The Write Course for Managers, Red Deer College, Red Deer, Alberta
- Journeyman Power Line Technology Certificate Red Seal, Northern Alberta Institute of Technology (NAIT), Edmonton, Alberta, Canada.



Bill Szumik

POSITION

Eastern Regional HS&E Manager

SUMMARY

Bill has over 40 years experience in all facets of the electrical utility sector with 20 years involved in large transmission station & lines project.

RELEVANT EXPERIENCE

Parkway TS 500kV New Station (Hydro One - 2005) - Toronto, ON

Greenfield construction of a new 500kV station. Installation of new structures, buss, transformers, breakers, etc.

Keephills TS 500kV Station Upgrade (AltaLink – 2010) – Alberta Upgrades to existing buss and structure in a live 500kV station

Hawthorne TS 500kV (Hydro One – 2008) – Ottawa, ON

Installation of new structure, buss, breakers, etc. in a live 500kV station

Bruce x Milton Double Circuit 500kV Transmission Line (Hydro One – 20012)

Greenfield construction of new 2 x 500kV transmission line

EMPLOYMENT HISTORY

Valard Construction LP Toronto, ON 2011 – Present

Eastern Regional Health, Safety and Environmental Manager - Eastern Canada

- Oversee the safety management of all project activities in Ontario
- Prepared the safety component for various project bids.
- Managed WSIB claims and costs for 300 plus staff without a lost time injury.
- Prepared and delivered numerous training programs such as; new employee training and site orientation, WHMIS, Transportation of Dangerous Goods, etc.
- Prepared and delivered over all monthly safety meetings for all groups.
- Vetted all Sub Contractors used on all projects.
- Continued to visit all worksites and corrected unsafe acts in a tactful manner.
- Liaised with all Project Owners in matters dealing with Safety.
- Developed and supervised a staff of 6 safety professionals.

Valard Construction LP. *Milton, ON*

2010 - 2012

Health, Safety and Environmental Manager – Bruce by Milton

- Developed the safety management system for the largest transmission project in North America
- Authored various procedures and Job Safety Analysis's, for tower assembly, erection and stringing of conductors
- Managed WSIB claims and costs for 250 staff without a lost time injury
- Liaised with the Ministry of Labour (MOL) over the course of the project, including numerous site inspections by the MoL, without one order to comply being issued
- Prepared and delivered numerous training programs such as, new employee training and site orientation, WHMIS, Transportation of Dangerous Goods, etc.,
- Prepared and delivered over all monthly safety meetings
- Vetted all Sub Contractors used on this project
- Review various work plans for safety compliance
- Visit worksites and corrected unsafe acts in a tactful manner
- Liaised with Hydro One (project owner) in matters dealing with safety
- Oversaw a staff of 4 safety professionals.



Valard Construction LP Southern Zone Alberta 2009 - 2010

Health, Safety and Environmental Manager

- Championed safety for the southern Alberta which led to a 50% reduction in safety incidents within 6 months.
- Developed and authored a Corporate "High Voltage Live Line Manual" of extremely high quality
- Developed over 35 work procedures for new tasks and revisit old ones for compliance to new legislative requirements
- Initiated new Corporate wide work procedures and incident reporting requirements
- Investigated incidents across Alberta and Manitoba for root causes and prepare reports which are forwarded in a timely manner to corporate, clients, and WCB.
- Prepared and delivered over 40 safety meetings to internal groups.
- Represented the company with various client/customer groups
- Reviewed various work plans for safety compliance
- Visited worksites and corrected unsafe acts in a tactful manner
- Became to "go to guy" for serious accident investigations and detailed comprehensive work procedures

Stantec/Alberci Constructors

Milton, ON 2008 - 2009

Safety Coordinator (part-time)

- Developed various administrative procedures for safety issues for the project management team.
- Reviewed various sub-contractors health and safety programs against best practices and provided a detailed assessment reports to the Vice President for Major Projects.
- Reviewed and analyzed the selected Project General Contractor's safe work procedures and provided feedback to the Vice President of Major Projects
- Developed various power point presentations dealing with the best safe construction practices for the erection of the 500kV circuit
- Provided expert safety advice to various project team members

Hydro One Engineering & Construction 2006 – 2008

Senior Health, Safety & Environment Advisor

- Worked aggressively within the Internal Responsibility System framework to ensure Corporate and Regulatory compliance and due diligence
- Lead Accident Investigator for serious incidents
- Championed for E&CS, Health, Safety and Environment Managed System based on OHSAS 18001 and ISO 14001
- Prepared monthly reports to the Executive Management Team on the safety scorecard, along with Identifying trends and suggesting solutions.
- Provided health & safety expertise to achieve occupational health & safety goals and objectives through participatory management.
- Technical Advisor to eleven (11) Joint Health & Safety Committees within a unionized setting
- Worked in a team environment to ensure environmental due diligence
- Worked with the internal rehabilitation group on WSIB case management to ensure safe and early return to work while minimizing costs
- Active participant or team leader for corporate committees dealing with instituting work procedures, safety management processes, etc.,

Hydro One Engineering & Construction Services 2001-2006

Health & Safety Coordinator

 Provided support and leadership to the E&CS group. Oversaw the safety aspects of large construction projects such as Parkway TS and the new 230kV transmission line from Niagara to Caledonia.



Hydro One Northern Territory and Engineering & Construction Services

Safety Analyst

- Safety support person for maintenance and construction forces in Northeastern Ontario and later for the Engineering & Construction Services
- Part of a team which developed Job Planning folders which were used by all maintenance and construction staff at Hydro One.
- Frequently provided expertise for job planning high hazard projects in live stations, such as Abitibi Canyon GS, unit 1 conversion from 25 cycle to 60 cycle.

Hydro One Transmission Projects 1995-1998

Safety Officer

- Safety Officer for Stations Central, Eastern, North East/West and Saunders GS providing the full range of conventional safety, such as WSIB management, Accident Investigation, JH&SC support, job planning and job safety analysis, etc.
- Championed the introduction of a Safety Management System.

Hydro One Nanticoke GS 1993-1995

1998-2001

Assistant Safety Officer

- Initially looked after Construction forces building the flash ash recovery system along with other minor construction projects.
- Within 6 months became the Acting Station Safety Officer providing support for not only 100 EPSCA trades but also 700 regular staff employed at the coal fired station
- Heavily involved in WSIB claims management and Safety Management Systems development and execution

Other Hydro One Work History 1972-1993

Line Trade

- Involved in all facets of distribution, construction and transmission maintenance including live line work on circuits up to 550kV.
- Team member in the first transmission line re-tensioning project in Northeastern Ontario using helicopters to lower workers onto towers.
- Took ever increasing supervisory roles, Sub-Foreman, Foreman, and General Foreman during this time frame, successfully completing projects with safety, productivity and costs as the prime drivers.

Regional Safety Officer

- Provided and delivered the full range of safety related courses including First Aid, Fire Fighting, Equipment Handling e.g., Forklift, Confined Spaces, etc.
- Recognized signing authority with the Ministry of Transportation signing for driers licence upgrades to internal staff.
- Provided safety support to a large segment of distribution and transmission line forces in Northeastern Region.
- Team or lead investigator on numerous accident investigations using "System Safety" techniques.
- Developed and practiced a Job Safety Analysis format used for high hazard jobs which eventually evolved into job planning folders.
- Guest lecturer at many internal and public venues presenting safety related topics such as electrical safety, etc.
- Championed the introduction of a Safety Management System.



AFFILIATIONS

Member of Technical Standards and Safety Association Provincial technical compliance committee

EDUCATION / TRAINING

- Bachelor of Arts University of Waterloo (through correspondence)
- OHSAS 18001 Essentials Training CSA
- OHSAS 18001 Internal Auditor CSA
- Taproot Advanced Investigation Team Leader Course System Improvements
- Managing Health & Safety on Construction Projects Donahue LLP
- Contract Administration
- Certified JH&SC member
- Standard First Aid
- WHMIS
- Fire Safety
- Electrical Safety Awareness



David Torgerson

POSITION

Foundations & Civil Manager

SUMMARY

Dave has been part of the Valard team for over 5 years and comes with over 20 years of experience.

EMPLOYMENT HISTORY

Valard Construction LP

Calgary, AB 2007 – Present

Construction Manager / Stringin Supervisor

- BXM Reinforcement Project Ontario 180 KM double circuit 500 KV 2010/2011
- Fluor Kearl Lake Project, Fort McMurray Alberta, 39 km 240 KV new construction 2009/2010
- BCTC Cloudworks, Harrison Lake BC, Construction 2 km 360 KV Salvage and Reroute for run of the river project Kiewit, 2009.
- First Nations Energy, Attawapiskat to Kasechewan, Ontario: Construction of 100 kms. of Aerial Fiber Optics, 2008
- Debeers, Victor Mine Project: Construction of 144 kms. of 115 kV Transmission Line through muskeg terrain, helicopter tower erection (Erickson Air Crane) 2008.
- Debeers, Victor Mine Project Construction Earthworks 115 KV Substation Kasechewan Ontario, 2007
- Lineman/operator on 50km of 138kV for the Fort St. John Reinforcement Project
- Debeers, Victor Mine Project: Construction of 170 kms. of 115 kV. Transmission line with numerous lake and river crossings through muskeg terrain, 2007
- Three Sister/ SNC Lavalin, Canmore Alberta: Construction of 5 km concrete duct bank and conductor installation double circuit 138 KV 2007
- IPP/Canadian Hydro Developers Squamish BC: Construction of 7km of 69 KV with extensive Helicopter Construction, and river crossings.
- ATCO, Dover Whitefish, Fort McMurray: Construction of 60 kms. of 240 kV double circuit transmission line with Athabasca river crossings, 2003 – 2004.

Manitoba Hydro.

Glenboro, MB 1999 - 2002

Construction Manager

Construction of 230 kV transmission line from Glenboro Manitoba to the United States border

Arnason Industries

Manitoba 1998

Construction Manager

Construction, Maintenance, and Logistics winter roads Northern Manitoba

Comstock Canada

Manitoba 1997

Construction Manager

135 km winter road construction and maintenance Ilford MB to Oxford House MB

Crocus Construction

Brandon, MB 1992 - 1996

Construction Manager

- Bridge pier resurfacing project, river diversion dewatering and maintenance of diversion
- Various bridge resurfacing projects, machinery moving and telecommunication cable installations.



- Journeyman Power Lineman, Alberta
- Journeyman Power Lineman, Inter-Provincial
- Crane and Hoisting Branch 2 A Boom Truck
- HCSAS-Equipment Operator Evaluator Instructor # 373
- EUSA Electrical Awareness Training
- Supervisor Training CSAO
- WHIMIS
- OSSA Orientation
- Construction Safety Training System 3.2
- Flag Person
- First Aid/CPR
- ATV Training Card # 32041
- Working Effectively with Aboriginal Peoples Seminar Vancouver BC
- Leadership in Safety Workshop
- Aboriginal Awareness Kearl Lake Amec AB

CIMFP Exhibit P-01886 Page 426

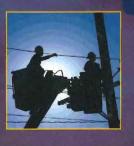
MasTec

Transmission Services Canada, LTD

MasTec Transmission Services Canada, Ltd Introduction Presentation February 7, 2014

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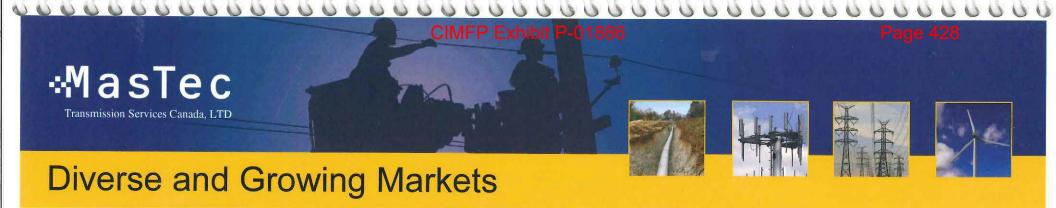


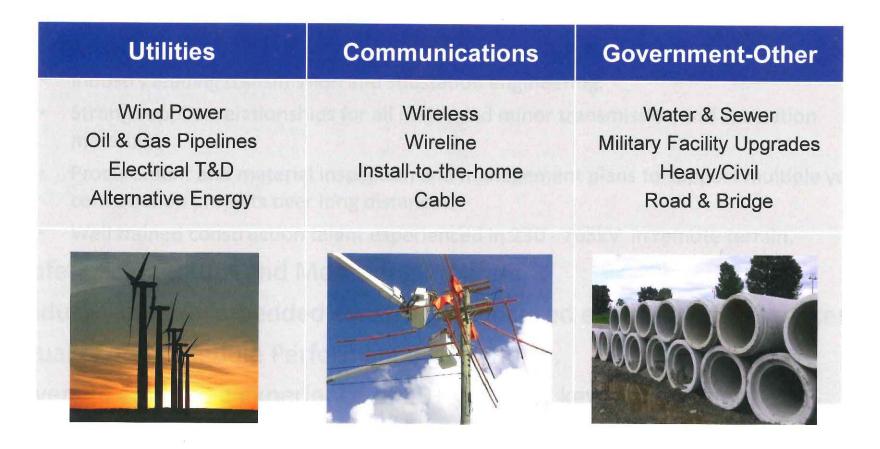






- Large Diversified Utility Supplier
- NYSE traded MTZ, <u>www.MasTec.com</u>
- Top 5 North American Energy and Telecommunications Infrastructure company
- 14,000 plus employees
- Over 240 Office locations US and Canada







- One of largest EPC providers for EHV transmission and substation infrastructure.
 - Industry leading transmission and substation engineering.
 - Strong supplier relationships for all major and minor transmission and substation materials.
 - Procurement and material inspection and management plans to support multiple year construction projects over long distances.
 - Well trained construction talent experienced in 230 765kV in remote terrain.
- Safety First Culture and Mentoring Program.
- Industry unique imbedded construction focused environmental services.
- Quality and Schedule Performance guarantees.
- Average employee experience of 20+ years for key management and supervision personnel.

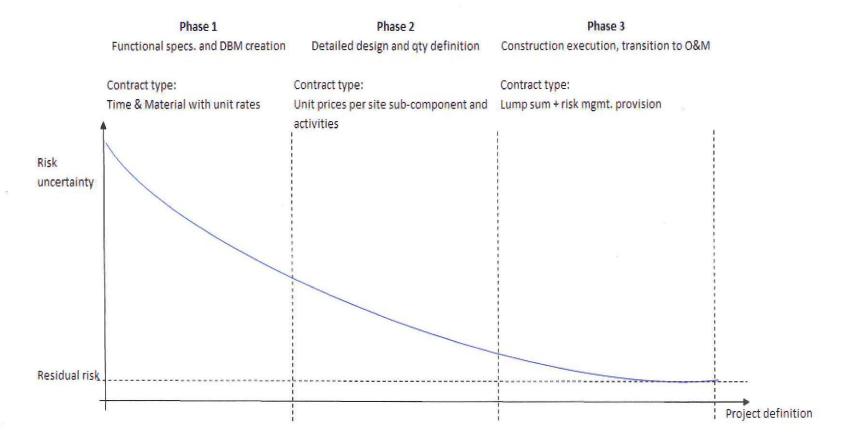


- Engineer, Procure, Construct
- Lump Sum / Firm Price
- Unit Rate
- Cost Plus / Rate Letter



Execution Models

Proposed Contracting Strategy





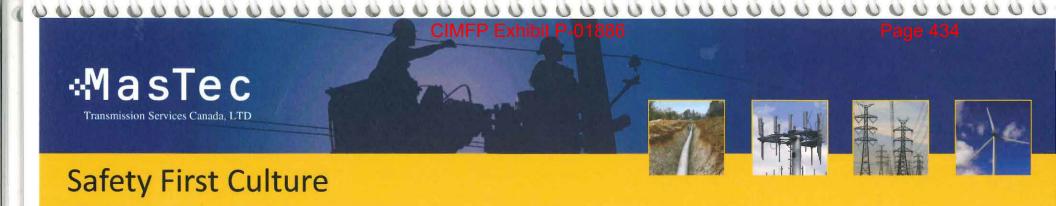
PROGRAM MANAGEMENT Transmission Services Canada, Ltd. Helicopter Aided Construction Environmental Surveying / Geotech / Civil Work / ROW Access / Clearing Testing/Commissioning Local imbedded civil construction resources Foundations Local Foundation Installation Specialists Line Construction Execution Local imbedded safety Local Line Construction resources resources

 $\varepsilon\,2014, Ab\,aghts\,response \,MasTec\,(MTZ)$



- Environmental compliance and mitigation
- Access Roads / ROW clearing
- Complete foundations / grillage / screw piles
- Lattice and pole steel erection
- Helicopter aided tower erection
- Hardware and insulator assembly
- Conductor and OPGW stringing, clipping and sagging
- Helicopter conductor installation operations
- Process Driven QA/QC process
- All construction activities are bound by a Safety First culture and mentoring program





The following Experience Modification Rating (EMR - USA), similar to Canada's TRIF rating demonstrates MasTec' commitment to a progressive and safety focused organization, including full support of management.

• 2009 1.00

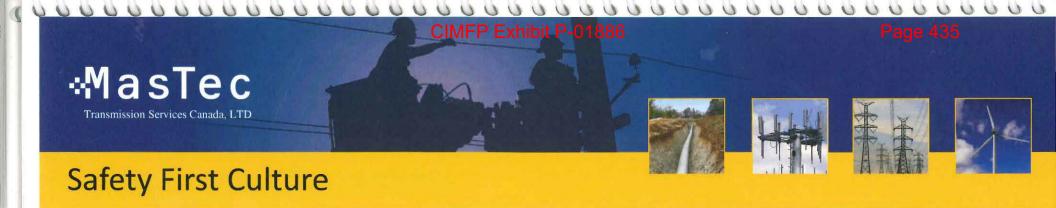
• 2011 0.81

• 2012 0.68

2013 0.68





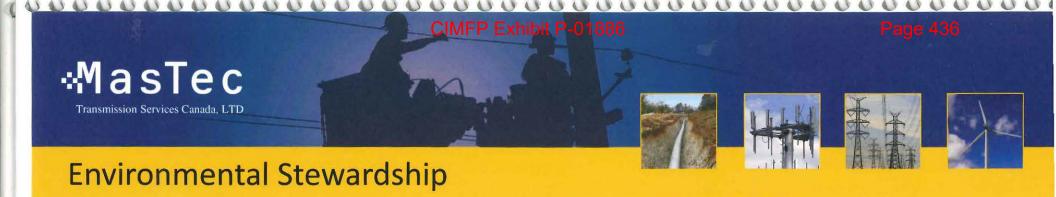


Forward looking, we would also ensure safe project execution by strictly adhering to best practices in Canada as follows:

- CAN/ULC S801: Standard on Electrical Utility Workplace Electrical Safety for Generation, Transmission and Distribution
- OHSAS 18001 Occupational Health & Safety Management System
- ISO 14001 Environmental Management Standard
- ISO 26000 Sustainable Development guiding principles

All Subcontractors will be required to follow our Safety Requirements ensuring strict standards for Safety Performance as part of Execution Strategy.





POLICY STATEMENT

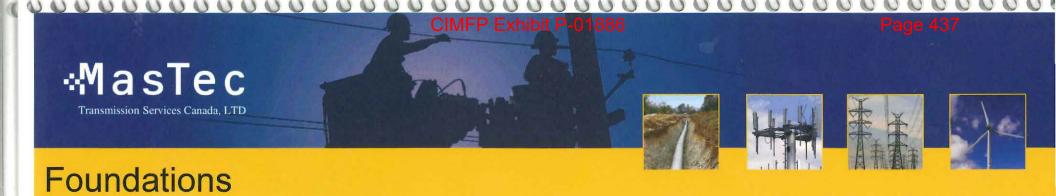
It is the policy of MasTec to comply with all National, Province, and local environmental rules and regulations and to provide an environmentally compliant workplace by integrating environmental management into all work and management practices.

MISSION STATEMENT

The mission of the team's environmental department is to bring environmental awareness, compliance, and excellence of service to all HV and EHV Projects.





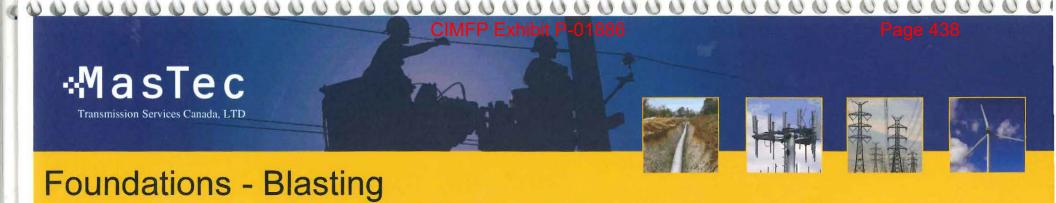


- Perform all types of foundations, including grillage and drilled pier designs(both battered and vertical, lattice and monopole).
- Employing efficiency technology increasing production.



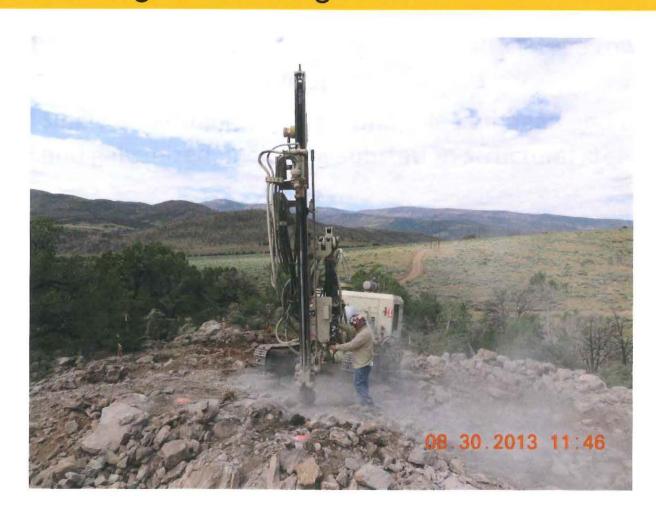














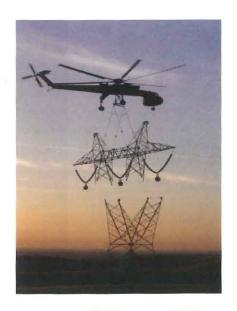
Steel Erection

- Perform all types of steel erection, including all lattice type towers, including remote access with helicopters.
- Erection of single and double circuit monopole and dead end towers, both weathered and galvanized, including substation structural steel.

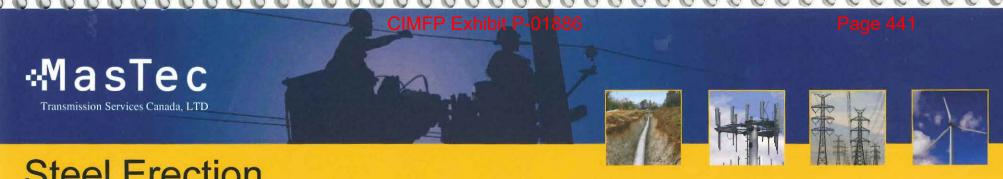












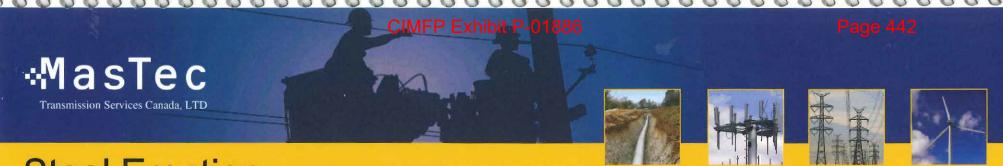
Steel Erection



500kV Lattice steel erection on the 110 Mile EPC Mona to Oquirrh Transmission Line in Utah

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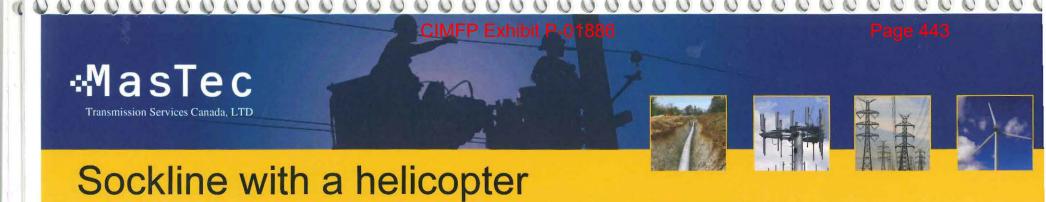
Steel Erection

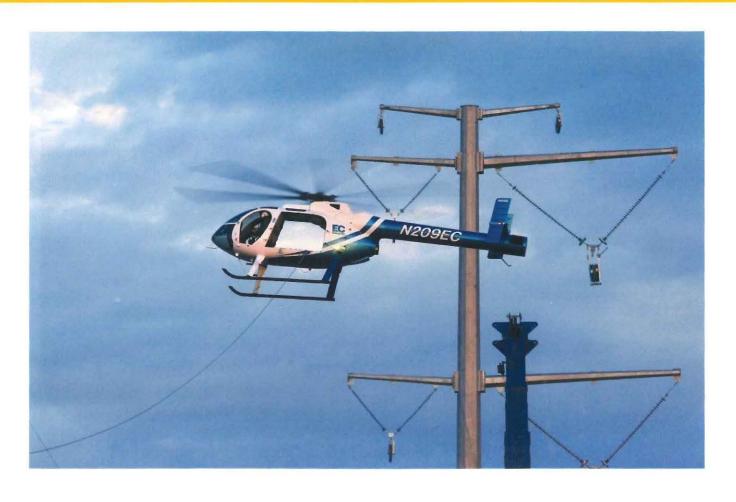


345kV steel erection on the 110 Mile EPC Mona to Oquirrh
Transmission Line in Utah

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Conductor Installation



Full compliment of multi-bundled conductor and OPGW installation equipment, including wire pullers, tensioners, and stringing equipment.



Material Management

- Strong relationships and experience with all major transmission line & substation equipment / material suppliers
- Establishment of laydown / fly yards
- Material stored or delivered to specific ROW locations
- QA/QC Inspected upon receipt with return of damage material under warranty
- Shop inspections as required
- Material tracking and inventory program from manufacturer to installation
- Experience in safe handling and transport of explosives for blasting and implo connectors









QA/QC Process

- QA/QC is process driven to ensure quality is maintained throughout engineering and construction with integrated test points.
 - Development of a well defined scope-of-work
 - Assignment of qualified staff with appropriate experience level
 - Development of customized QA/QC Plan for each project
 - Customized plan review with designers and client team
 - Oversight by Senior Staff and Management

QA/QC Program

We strive to provide quality materials and exceptional labor for all construction activities. QA/QC personnel will be on site from the beginning to inspect materials as they are received, and file and report independent test data, through field installation. The inspection staff has the ability to direct field crews to stop work if deficiencies are found.

- Vendor / Supplier Facility Inspections
- Concrete Batch Plant Inspections
- Material Received Inspection Reports
- Material Damage Report
- Blasting Report
- Foundation Dimension Report
- Foundation Installation Report
- Foundation Excavation report
- Structure Assembly Report
- Structure Erection Report
- Insulator Installation Report
- Wire Stringing Report
- Wire Sagging Report
- · Wire Clipping Report
- Corrective Action Report



Project Managers responsibilities:

- Risk Management Plan and Risk Matrix
- Safety/ Auditing
- Written scope definition services and facilities
- Challenge and Approval Process
- Contracting understanding key terms and conditions
- Project Control scheduling, cost analysis, etc.
- Change Control
- Kick Off Meeting
- Project Execution Plan
- Project Reviews
- Project Reporting
- Project Documentation
- Lessons Learned
- Project Closeout
- Quality Assurance/ Quality Control
- Communication through a document management system
- Scheduling performed in Primavera P6





- MasTec 2013 Revenues projected at \$4.25B
- Capacity to bond in excess of \$1B
- Letter of Credit Facilities
- Project level insurance with Builder's Risk capacity
- Parental Guarantees
- LD's and other financial disincentives are typical





La Curently pulling wire





North America Experience

Engineer, Procure & Construct (EPC)

MidAmerican Energy Company / MVP 3 and 4 project / Double Circuit 345/161kV Tline and four substations. Towt - fumlund

192 miles of transmission lines and four 345 substations. (Current)

PacifiCorp / Mid American Holdings / Mona - Oquirrh 500/345kV Trans. Line and Sub Project

35 miles of double circuit steel monopole circuit transmission across the Oquirrh mountains, 65 miles of single circuit 500KV Lattice circuit transmission, expansion of the existing 345kV Oquirrh substation. (Current)

PacifiCorp / Mid American Holdings / Sigurd to Red Butte 345kV Transmission Line Project

169 miles of single circuit steel h-frame and lattice transmission circuit transmission line. (Current)

WAPA / Los Banos-Gates (Path-15) 500 kV Transmission Project

85 miles executed in 14.5 months; exceeding even the most aggressive completion estimates and historical industry performance, all with unparalleled high performance metrics including safety, environmental stewardship, public relations and robustness of design.

A and E Services (EP)

PSE&G - Burlington and Camden Substation Projects

Engineering and Project Management of Upgrade of 230kV 80kA breaker and half Burlington Substation and Upgrade of 230kV 80kA 20 breaker double bus Camden Substation. (Current)

PSE&G - Hudson and Essex Substation Projects

Engineering and Project Management of Upgrade of 230kV 80kA breaker and half Essex Substation and 230kV 80kA breaker and half Hudson Substation. (Current)











North America Experience

Procure & Construct (PC)

BHE / Northeast Reliability Interconnect 345 kV Transmission Project
83 miles, 345 kV Transmission Line – completed in 16 months

AEP / LCRA Morgan Creek 345kV Transmission Project
70 miles, 345kV Double Circuit Transmission line



Construct (C)

APS - HANG 2 Project

112 mile 500kV Transmission Line near Yuma, AZ (Current)

SRP – Pinal Central to Pinal West Transmission Project

54 mile 500/230kV Transmission Line near Phoenix, AZ (Current)

PPL - Susquehanna to Roseland Transmission Project

70+ miles 500kV Transmission Line in Pennsylvania

APS / Pinnacle Peak-Morgan 500/230 kV Transmission Project

28 miles, 500/230 kV Transmission Line

AEP - Barney Davis Project

6 miles of double circuit rebuild in Corpus, Christi, TX

ETT - Fort Lancaster Project

112mile Transmission Line crossing Lake Amistad - Ozona to Del Rio, TX

BPA / Schultz-Wautoma No. 1 500 kV Transmission Project

62 miles, 500 kV Transmission Line

nalcor energy LOWER CHURCHILL PROJECT

Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

ATTACHMENT 8

NDA WITH QUANTA AND OPEN BOOK PRICING MODEL

CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT

THIS CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT (this "Agreement") is entered into this _14th__ day of November, 2013, by and between Lower Churchill Management Corporation, a body corporate constituted pursuant to the laws of the Province of Newfoundland and Labrador solely in its own right and not as agent of the Crown in right of the Province of Newfoundland and Labrador, and having its head office at the City of St. John's, Newfoundland and Labrador, Canada (the "Company"), and Quanta Services, Inc., a Delaware corporation ("Quanta"). Quanta and the Company may be referred to herein individually as a "Party" and collectively as the "Parties".

WHEREAS, the Parties contemplate entering into discussions to explore a potential business relationship or transaction involving Quanta or certain of its subsidiaries and the Company and/or certain of its affiliates (a "Business Relationship"); and

WHEREAS, each Party ("Disclosing Party") is willing to provide confidential and proprietary information to the other Party ("Recipient") to assist Recipient in its consideration and evaluation of, and potentially entering into, a Business Relationship.

NOW, THEREFORE, in consideration of the premises hereof and the promises set forth below, the Parties agree as follows:

- 1. <u>Confidential Information</u>. For the purposes of this Agreement, the term "Confidential Information" means and includes information concerning the business and operations of Disclosing Party (including any business, commercial, technical, marketing, financial or other information, whether in electronic, oral or written form) provided by Disclosing Party or its Representatives (as defined below) to Recipient or its Representatives in connection with Recipient's evaluation of a Business Relationship. With respect to a particular Party, the term "Representatives" means and includes such Party's affiliates and their respective directors, officers, members, managers, employees, representatives (including, without limitation, financial advisors, legal counsel, consultants and accountants) and agents. Confidential Information shall also include all analyses, compilations, forecasts, schedules, studies, summaries, extracts or other notes or documents prepared by the Recipient or its Representatives which contain or reflect, or are generated from, any such information provided by Disclosing Party or its Representatives in connection with Recipient's evaluation of a Business Relationship.
- 2. Exceptions. Notwithstanding anything otherwise contained herein, Confidential Information shall not include information that (a) is at the time of such disclosure or thereafter becomes publicly available or generally known, other than as a result of a breach of this Agreement by Recipient or any of its Representatives, (b) is already known to Recipient or within its possession at the time of such information's disclosure by Disclosing Party, (c) becomes available to Recipient from a third party that is not known by Recipient to be in breach of a confidentiality obligation owed to Disclosing Party or any of its Representatives, (d) can be shown by Recipient to have been independently developed by it or its Representatives without use or reliance on the Confidential Information or (e) is approved for public disclosure in writing by Disclosing Party.
- Restrictions on Use and Dissemination of Confidential Information. Recipient agrees not to use the Confidential Information for any purpose other than evaluating and potentially consummating a Business Relationship. Except to the extent required by law, regulation or rule (including of any governmental body, national stock exchange or other regulatory authority) or as otherwise provided herein, Recipient shall not, without the prior written consent of Disclosing Party, disclose the Confidential Information to any person or entity and will protect the confidentiality of such Confidential Information using the same standard of care as Recipient uses with its own confidential information (but no less than a reasonable standard of care); provided, however, that Recipient may furnish Confidential Information to its Representatives who need to have access to such Confidential Information for purposes of evaluating and potentially consummating a Business Relationship, provided that Recipient shall inform its

SPF

Representatives of the confidential nature of the information and shall be responsible for any breach of this Agreement by any such Representatives.

- 4. Ownership and Nature of Confidential Information. All Confidential Information shall be and remain the property of Disclosing Party, and no right or license is hereby or otherwise granted, directly or indirectly, to Recipient with respect to any Confidential Information other than the right to use the Confidential Information in accordance with the terms of this Agreement. Except for any representations or warranties set forth in a final, written definitive agreement, if any, regarding a Business Relationship between the Parties, no representation or warranty is made by Disclosing Party or any of its Representatives as to the accuracy or completeness of any information provided to Recipient.
- 5. Non-Disclosure of Business Relationship. In addition to the foregoing disclosure and use restrictions regarding Confidential Information, each Party agrees that, except to the extent as required by applicable law, regulation or stock exchange rule, it will keep confidential and will not (and will cause its Representatives to not), without the prior written consent of the other Party, make any public announcement concerning the other Party or the Business Relationship or disclose or confirm to any third party the contents, substance, status or existence of any discussions, negotiations or evaluations that are taking or have taken place related to a Business Relationship (including the existence and contents of this Agreement and the fact that Confidential Information has been exchanged between or made available to the Parties).
- 6. Non-Solicitation. Each Party agrees that, for a period of two (2) years from the date hereof, neither the Recipient nor any of its affiliates will solicit for hire any of the officers or other employees of the other Party or any of its subsidiaries other than (i) through a general solicitation for employees (including through the use of newspapers, trade journals, the internet, employment agencies or search firms) in the ordinary course of business consistent with past practice that is not specifically directed at any such persons and (ii) the hiring of any person who contacts the Recipient on his or her own initiative.
- Return or Destruction of Confidential Information. Upon the written request by Disclosing Party, Recipient agrees to, at its option, either return to Disclosing Party or destroy all Confidential Information provided to Recipient by Disclosing Party, including all copies of the same, except for any such Confidential Information that exists only as part of regularly generated electronic backup data, the destruction of which is not reasonably practicable; provided, however, that Recipient and its Representatives may retain one copy of such material to the extent necessary to comply with applicable law, regulation or bona fide document retention policies. Any electronic backup data and other copy of Confidential Information retained by Recipient pursuant to the preceding sentence shall remain subject to all restrictions and obligations contained in this Agreement. Upon written request by Disclosing Party, the fact of any such destruction shall be certified in writing by Recipient to Disclosing Party.
- 8. Required Disclosure. If Recipient or any of its Representatives is required by oral questions, interrogatories, requests for information or documents, subpoena, civil investigation, order, demand or similar legal or administrative process of any court or other governmental or regulatory authority to disclose any Confidential Information, (a) Recipient shall promptly notify (other than where prohibited by applicable law or where such disclosure is required as a result of an examination by a regulatory or governmental agency that is required to keep such information confidential) Disclosing Party of such requirement so that Disclosing Party may seek an appropriate protective order or other relief or waive compliance with the provisions of this Agreement and (b) Recipient or its Representative may disclose such Confidential Information, but only that portion which is legally required to be disclosed.
- 9. <u>Business Relationship; Nature of Agreement</u>. Both Parties acknowledge and agree that unless and until a final, written definitive agreement regarding a Business Relationship between the Parties or their respective affiliates has been executed and delivered, neither Party is under a commitment

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to enter into any agreement, discussions or negotiations with the other Party or to conclude or further pursue or proceed with such a Business Relationship or any other type of business relationship by virtue of this Agreement or any disclosure of Confidential Information, and neither Party will be under any legal obligation of any kind whatsoever with respect to such Business Relationship, except for the matters specifically agreed to herein. Both Parties further acknowledge and agree that each Party reserves the right, in its sole discretion and at any time, to reject any and all proposals made by the other Party or any of its Representatives or any other party with regard to a Business Relationship and to terminate any discussions or negotiations related to a Business Relationship at any time without liability to the other Party other than the obligation to comply with the terms of this Agreement. Nothing in this Agreement nor any disclosure of Confidential Information hereunder creates any agency, joint venture or partnership-relation between the Parties or prohibits or restricts the right of either Party to enter into any business relationship with a third party or use in its services and products any ideas, concepts, methods, expressions, know-how or techniques related to the scope of the other Party's services or products that are not unique to the Confidential Information.

- 10. <u>Remedies</u>. Each Party agrees that, due to the unique nature of the Confidential Information, a breach of this Agreement may cause irreparable harm that cannot be adequately compensated with monetary damages and that, in addition to any other rights or remedies that may be available to Disclosing Party at law or in equity, Disclosing Party will be entitled to seek injunctive or other equitable relief as a remedy for any such breach.
- 11. <u>Securities Laws</u>. Each Party understands, and will communicate to its Representatives who have knowledge of the potential Business Relationship, that applicable securities laws restrict the purchase or sale of securities by any person who is in possession of material, nonpublic information from the issuer of such securities and on the communication of such information to any other person when it is reasonably foreseeable that such other person is likely to purchase or sell such securities in reliance upon such information.
- 12. Term. Unless sooner terminated in a writing mutually signed by the Parties, this Agreement will remain in effect for a period of two (2) years from the date hereof; provided, however, that, with respect to any Confidential Information disclosed prior to such termination date, the obligations hereunder with respect to such Confidential Information will survive such termination for a period of two (2) years from the date of disclosure of such Confidential Information.
- 13. Export Restrictions. Disclosing Party's Confidential Information is subject to all applicable export and import control and customs laws and regulations of the United States, including any associated embargo and sanction regulations, and Recipient agrees that it will not, directly or indirectly, export or re-export such information or any product, equipment or material embodying or made by use of such information to any prohibited destination or country (including the release to nationals of any prohibited country regardless of where such nationals are located) in violation of such laws and regulations.
- 14. No Waiver. No failure or delay by either Party hereto in exercising any right, power or privilege hereunder shall operate as a waiver thereof, nor shall any single or partial exercise or waiver thereof preclude any other or further exercise thereof or the exercise of any right, power or privilege whatsoever hereunder.
- 15. <u>Waiver: Amendment.</u> Neither this Section nor any other provision in this Agreement can be waived or amended except by written consent of the Parties, which consent shall specifically refer to this Section (or such other provision) and explicitly make such waiver or amendment.

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- 16. <u>Assignment</u>. This Agreement may not be assigned by either Party without the prior written consent of the other Party. This Agreement will inure to the benefit of and be binding upon the parties and their respective successors and permitted assigns.
- 17. <u>Costs and Expenses</u>. Each Party agrees that it shall be solely responsible for all costs and expenses incurred by such Party or its Representatives in connection with this Agreement and its review of the Confidential Information and evaluation of a Business Relationship.
- 18. <u>Severability</u>. Any provision of this Agreement that is prohibited or unenforceable in any jurisdiction shall to the extent permitted by applicable law, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction.
- 19. <u>Entire Agreement</u>. This Agreement contains the entire understanding and agreement between the Parties with respect to the matters set forth herein and supersedes any and all prior and contemporaneous agreements and understandings between the Parties, whether written or oral, relating thereto. Except as set forth in this Agreement, neither Party will have any obligation or liability, express or implied by law, with respect to trade secrets or proprietary information of the other Party.
- 20. Notice. All notices, requests, demands, declarations and other communications required hereunder or given pursuant hereto shall be in writing and shall become effective (a) if given by facsimile, when transmitted and receipt has been confirmed, (b) if given by registered or certified mail, three business days after being deposited with the U.S. Postal Service, postage prepaid, (c) if given by courier, when delivered by such courier or (d) if personally delivered, when so delivered in person, addressed as follows:

(i) If to the Company:

Lower Churchill Management Corporation, Hydro Place, 500 Columbus Drive P.O. Box 12800, St. John's, Newfoundland Canada A1B 0C9

Attention: Lance Clarke Facsimile: (709) 737-1800

(ii) If to Quanta:

Quanta Services, Inc. 2800 Post Oak Blvd., Suite 2600 Houston, Texas 77056-6175 Attention: General Counsel Facsimile: (713) 629-7639

or at such other address as either Party may from time to time designate for itself by written notice to the other Party.

- 21. Governing Law. This Agreement shall be construed and the relations between the Parties determined in accordance with the applicable laws of the Province of Newfoundland and Labrador and Canada, including any limitation periods, and reference to such applicable laws shall not, by application of conflict of laws rules or otherwise, require the application of the applicable laws in force in any jurisdiction other than Newfoundland and Labrador. The Parties hereby irrevocably attorn to the exclusive jurisdiction of the courts of the Province of Newfoundland and Labrador and Canada for the resolution of any dispute arising hereunder.
- 22. <u>Headings</u>. Section headings herein are included for convenience of reference only and shall not constitute a part of this Agreement for any other purpose.
- 23. <u>Counterparts</u>; <u>Signatures</u>. This Agreement may be executed in two or more counterparts, each of which shall constitute an original and all of which together shall constitute one and the same

J.K.

instrument. It will not be necessary in making proof of this Agreement or the terms of this Agreement to produce or account for more than one such counterpart. Each Party agrees that it will be bound by its own facsimile or scanned signature and that it accepts the facsimile or scanned signature of the other Party to this Agreement.

IN WITNESS WHEREOF, the undersigned have executed this Agreement as of the date first above written.

LOWER CHURCHILL MANAGEMENT CORPORATION

QUANTA SERVICES, INC.

Ву: __

Name: Gilbert Bennett

Title: Vice Plesident

Name: B.J. Ducey Title: Vice President

SPL

Open Book Estimate Development Model

05-November-2013





Purpose

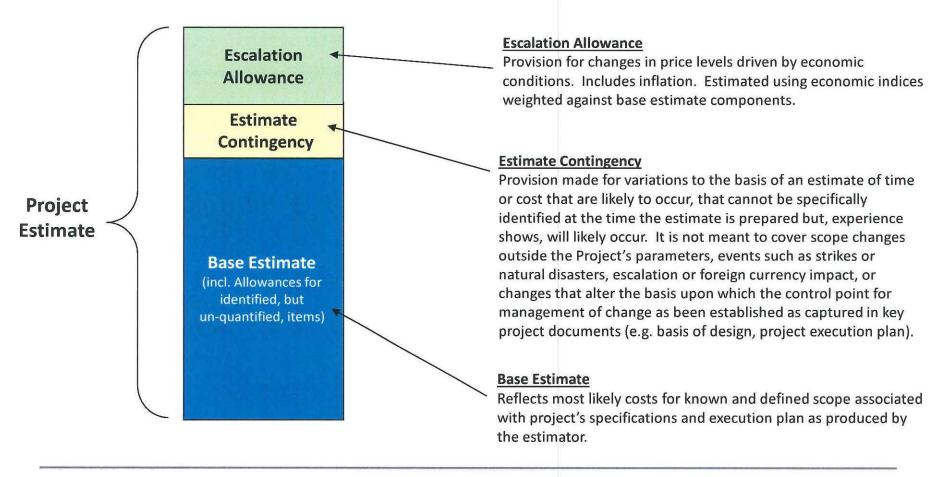
 Leverage Nalcor's estimating framework as a collaboration model to develop an open book estimate for the HVdc TL.

Nalcor's Estimating Approach

- Adopt industry recommended practice
 - Association for Advancement of Cost Engineering (AACE) International
- Focus on key cost drivers
- Fully engage project team
- Understand and apply lessons learnt from other projects
- Gather external and independent input



Cost Estimate Components





The Estimators Consider 4 Elements

Definition Factors (Scope) Construction
Methodology
& Timeline
Factors

Price Factors Performance Factors



What is to H be built

How it will be done

Per Unit material / labor cost

Time to complete each work activity



Each Element has Extensive Information Set

Definition Factors (Scope)

+

Construction
Methodology
& Timeline
Factors

30 A

Price Factors

+ Per

Performance Factors

Base Estimate

- □ Design Criteria & Specifications
- ☐ General Arrangements & Layouts
- Design Drawings for major components – towers and hardware
- ☐ MF rock and concrete quantities from 3D CAD
- ☐ Master Equipment List
- ☐ Cable List
- ☐ Material Take-offs for Construction Bulks
- ☐ Equipment Specifications
- □ Geotech surveys
- WBS & Cost Codes

- ☐ Construction Philosophies
- ☐ Construction Execution Plan
- ☐ Constructability Reviews
- □ Construction Schedule
- □ Logistics and Access, incl. freight forwarding & marshaling yards
- ☐ Contract Package Dictionary
- ☐ Org. Design and Staff Plans
- ☐ Construction Equip. Types
- ☐ Labor Demand
- Labor Demarcation
- ☐ In-directs Strategies
- □ Site Services
- ☐ Pre-Fabrication Plans
- ☐ Crane & Access Studies
- Support Facilities
- ☐ Material Sourcing Strategies
- ☐ Seasonality Constraints
- Permit Register

- □ Labor Agreement
- ☐ Construction Equip. Rates
- □ Bid Analysis T/G, SOBI Cable, Tower Steel, Accommodations, Road
- □ Budgetary Quotes various equipment
- ☐ Site Services Costs catering, air transport
- ☐ Construction Bulks Prices – Rebar, Cement, Diesel, etc.
- ☐ Helicopters and Aircrane
- Contracting Market Intelligence – overhead and profit
- ☐ Foreign Exchange Rates

- ☐ Crew Make-up and Assignments
- □ Task durations□ Workface Restrictions
- ☐ Labor Productivity & Benchmarks
- Mobilization Constraints
- Work Front Stacking
- Seasonality Impacts
- □ Equipment Productivity
- □ In-Directs Usage
- Offsite Fabrication

- ☐ Estimate organized by Project, Physical Component and by Contract Package
- □ Documented Basis of Estimate
- ☐ Foreign Currency Demand
- □ Person hours
- □ Trade demands
- ☐ Cash flows





- Both parties believe that direct negotiations can get to a win-win endpoint for Nalcor and Valard/Quanta.
- Both parties subscribe to collaboratively developing an open book price model with closed book execution
 - Will build up trust between the parties and allow for the mutual discovery of cost saving/sharing opportunities
 - Will allow Valard/Quanta to incent supervisory and workforce performance
 - The contract price structure is expected to be a combination of fixed price and unit rates for foundations - Substantially similar to the current AC contract.
- Both parties will have "skin in the game" exemplified by the appropriate sharing and allocation of project risks.
 - A risk matrix will be collaboratively developed
- Transparency is required by both parties (Nalcor's budget and Valard/Quanta's estimating inputs)
 - Nalcor must be able to explain to its Board of Directors how and why we got to the proposed agreement and why it's a great thing for its customers and shareholders
 - Valard/Quanta must be able to explain to its Board of Directors why this is a fair contract for the amount of resources, market conditions and risk involved





- Each party must show value to respective Boards in order to demonstrate the validity of the negotiating process
 - Safety
 - Cost (1 contractor vs. multiple contractors for multiple sections/segment; leveraging resources from Phase 1 award; leveraging resources (e.g. facilities, equipment, personnel) from Nalcor, etc.)
 - Schedule
 - Risk Management (minimizing surprises and effectively managing project contingency)
 - Capability to complete the overhead portion of the DC Link
- Nalcor needs assurances that there is a cap on their risks
 - We will accomplish this objective through lump sum pricing with targets/unit prices for areas where there are significant unknowns
- Nalcor needs assurances that there will be a commitment from Valard/Quanta for labor and supervisory/management staff on the project.
 - Nalcor is aware that Valard/Quanta has the capability but it is concerned about the capacity to deliver with so many other projects
- Nalcor needs off ramps from 2 perspectives:
 - Valard/Quanta's failure to perform
 - Failure to come to agreement during direct negotiations



Valard QUANTA SERVICES COMPANY QUANTA SERVICES

- Valard/Quanta needs assurances that its price model and estimate will not be shared with competitors.
 - Valard/Quanta will propose an NDA to Nalcor for these assurances
- Valard/Quanta needs assurances that if direct negotiations fail to result in an award then Valard/Quanta will be allowed to bid on all segments of each section and will be treated fairly in the process.
- In the expectation that we are able to come to an agreement, each party is committed to do what we can in parallel (such as the exchange and refinement of contract documents) to expedite the process
 - We will use the contract documents from The AC Line as a starting point for contract development.
- December 1st Visibility into viability of process.
 - Nalcor needs to feel comfortable by December 1st, that it is highly likely that an agreement can be made through this process





- Schedule
 - Flyover
 - Who should be Valard's contact for logistics?
 - Other important dates that we need to be working towards
- Issues or Questions with the process
 - Personnel involve who all is involved?
 - Schedule
 - Vegetation Clearing Scope of Work and Pricing of this Scope of Work
 - Other Technical Questions
 - Other Issues or Questions.



Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

ATTACHMENT 9

VALARD'S 16-DECEMBER-2013 PRELIMINARY EXECUTION PLAN



Valard Presentation 16/12/2013 Rideout, Jody

to:

JasonKean@lowerchurchillproject.ca

12/21/2013 06:40 PM

Cc:

"Budzinski, Adam"

Hide Details

From: "Rideout, Jody" < JRideout@valard.com>

To: "JasonKean@lowerchurchillproject.ca" < JasonKean@lowerchurchillproject.ca>,

Cc: "Budzinski, Adam" <ABudzinski@valard.com>

History: This message has been replied to and forwarded.

2 Attachments



Nalcor-HVDC-16Dec2013.ppt ATT00001.htm

Jason,

The presentation file we presented with on Monday is attached. I've made a couple minor adjustments to reflect discussions with Mark that hadn't taken place due to the weather.

I trust, you'll provide this to whomever needs it.

An email with organization charts will follow.

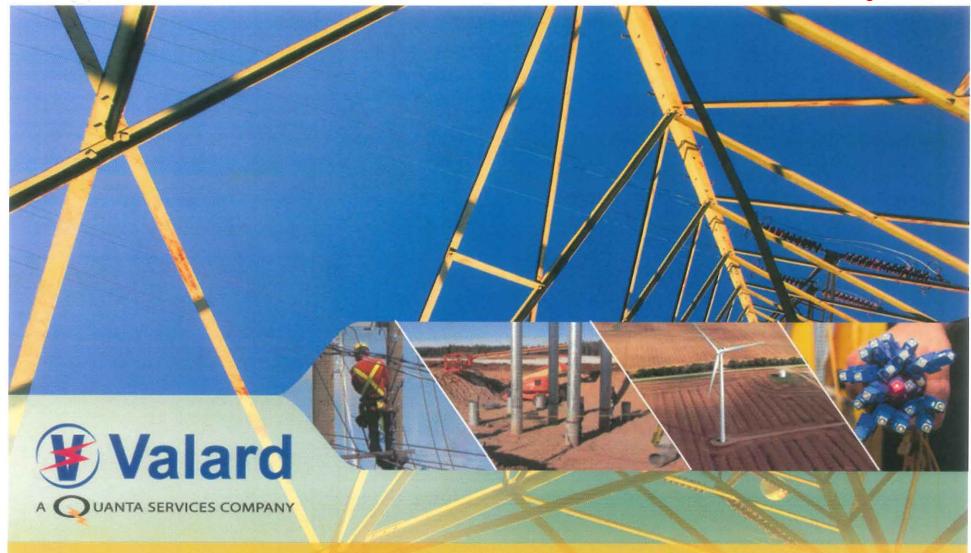
Thanks,

Jody

Jody Rideout | Director, Major Projects | Valard Construction LP Suite 200 | 3595 - 114 Ave SE | Calgary, AB T2Z 3X2 | www.valard.com Main: 403.279.1003 | Fax: 403.236.1303 | Cell: 403.700.3411

Email: jrideout@valard.com

Quanta Services, Inc. (NYSE: PWR) | www.quantaservices.com



Nalcor - HVDC Line Construction Dec 16, 2013



Agenda

- Execution Plan
- Management Structure
- The Quanta Team
- Estimate Assumptions





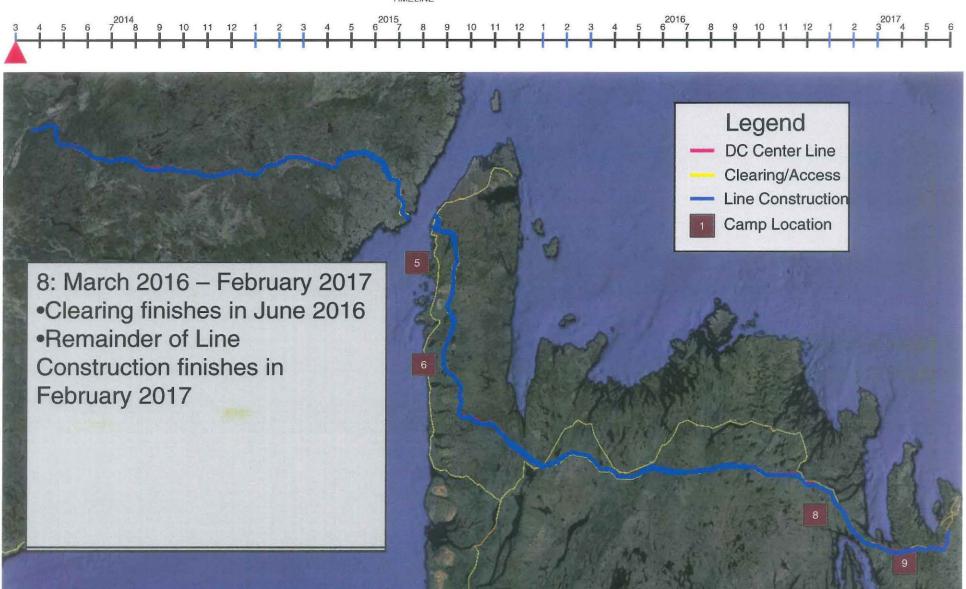
Execution Strategy

- Year round progress across 3 distinct spreads
- Separate management team per spread
- 6 camps deployed to 11 total locations
- Contiguous work fronts = maximum efficiency
- Resource leveled plan reduces camps & indirects
- 18 24 month construction window per spread
- Access and clearing begin April 2014 (spread 1)
- All line construction completed by March 2017

Schedule Overview

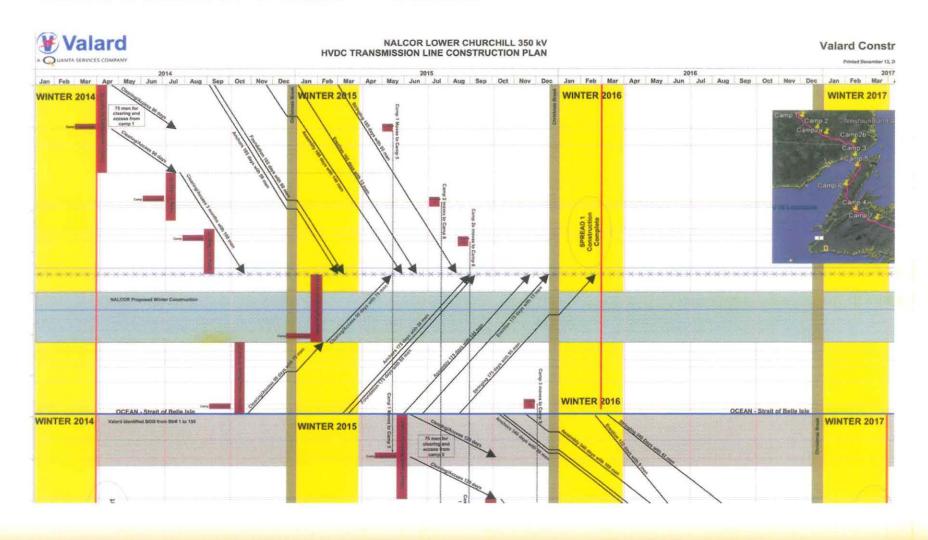








Execution Plan - Tilos





- Reduced Work-Fronts
- Reduction of Camp Resources & Overheads
- Management Efficiencies
- Management Consistencies
- Construction Efficiencies



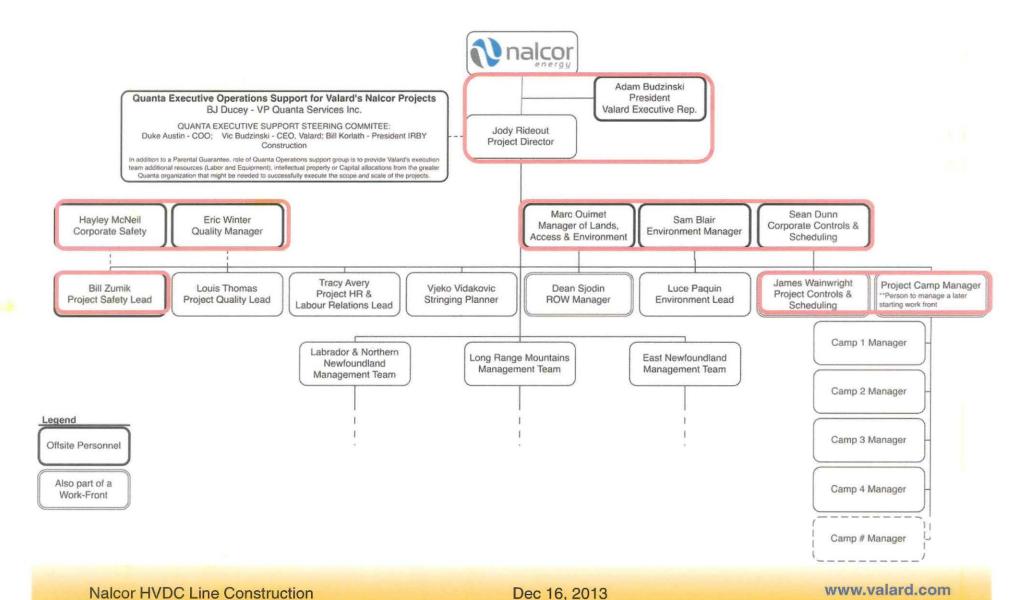
- LRM Fewer, Higher Production Crews
- Quality Program
- Leverage Manpower/Resources Deployed To NL
 - CMs, Supervisors, Directors
 - Opportunity to Grow Skilled Positions
- Safety



Time Off Coverage

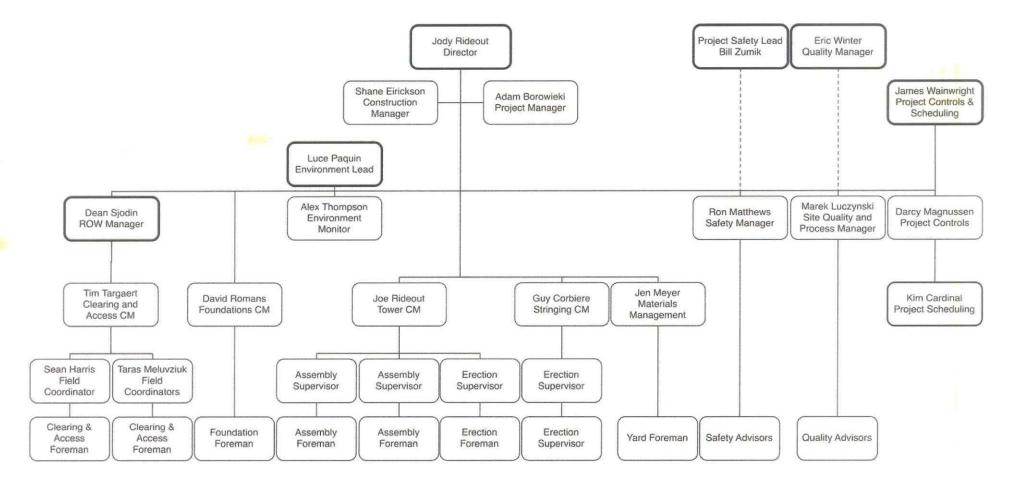
Project Organization





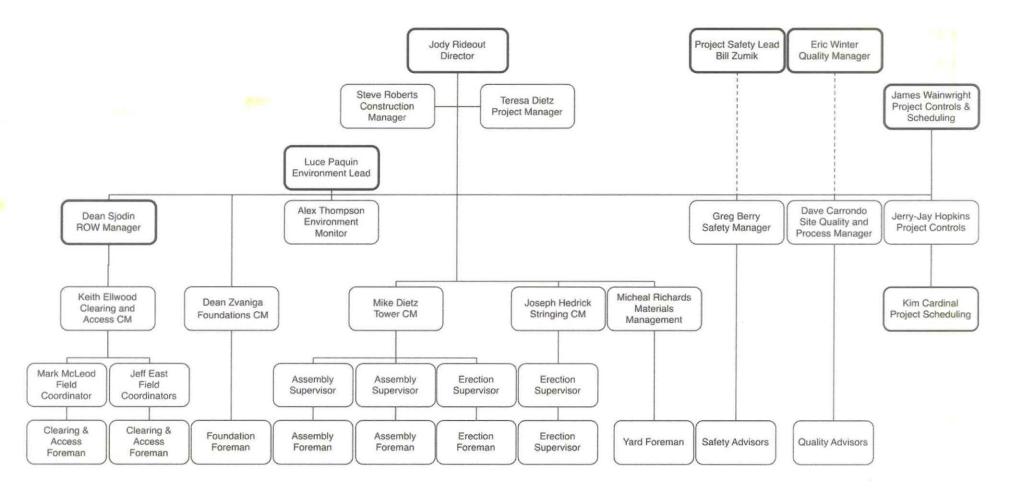
Project Organization Work-Front 1 & 2





Project Organization Work-Front 1 & 2







- MARC KEY HIGHLIGHTS FROM CLEARING PLAN
- DEAN KEY HIGLIGHTS FROM ACCESS PLAN



Integrated Quanta Team

- Quanta Executive Support Steering Committee
- Project Director located full time in NL, Regular trips to all Spreads
- Valard & Quanta Executive (Vic/Adam) Support





Quanta Services Capacity

- 17 EHV projects currently underway
- Over \$3 billion USD total Value of EHV projects
- Canada's largest powerline workforce (Valard)
- Additional capacity Irby, Allteck, and McGregor





Total Workforce



891





316

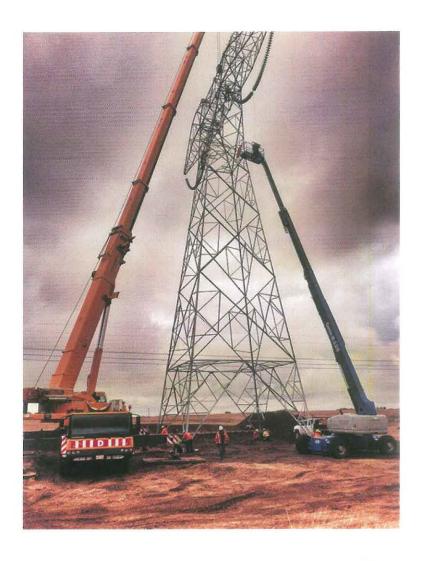


242



2,037

3,486





Valard Major Projects

BC Hydro – NTL Project 428 men – available spring 2014

ATCO Electric - EATL Project 458 men – available summer 2014

Sask Power - I1K Project 143 men – available fall 2014

*1,029 total men per Dec 9, 2013 HR Report (NTL, EATL, and I1K)





Estimate & Key Planning Assumptions



Proposal Highlights

- Execution Plan
- Org Charts
- Estimate
- Estimate Details
- Tilos Schedule
- E.P.P.
- Key Assumptions



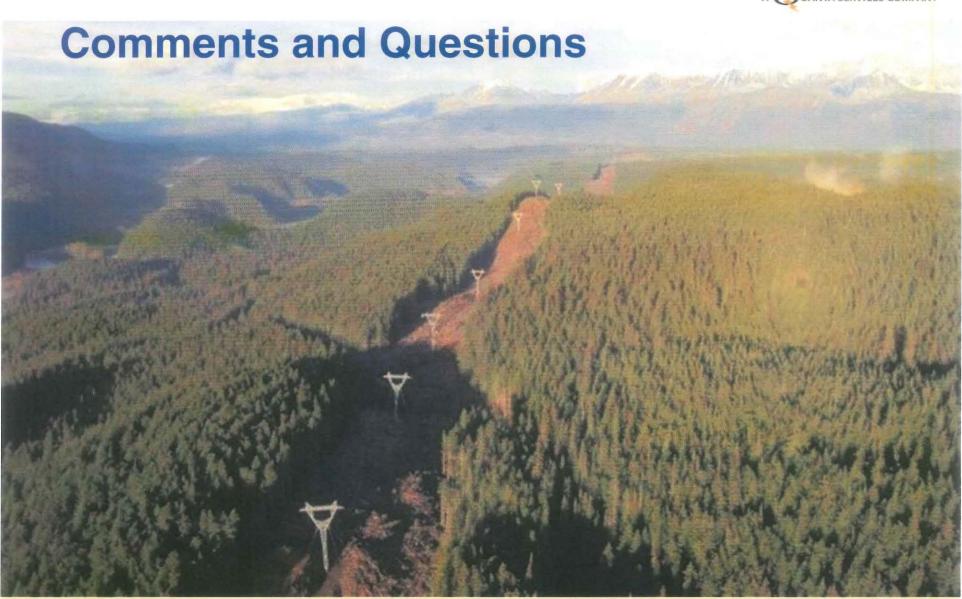


Next Steps

- Execution Plan and Schedule Adjustment
- Detailed Estimate Walk Through
- Muskrat Falls AC Line Mobilization
- Path Forward confirm timelines









Valard Org Charts 16/12/2013

Rideout, Jody to: JasonKean@lowerchurchillproject.ca

Cc: "Budzinski, Adam"

12/21/2013 06:29 PM

History:

This message has been forwarded.

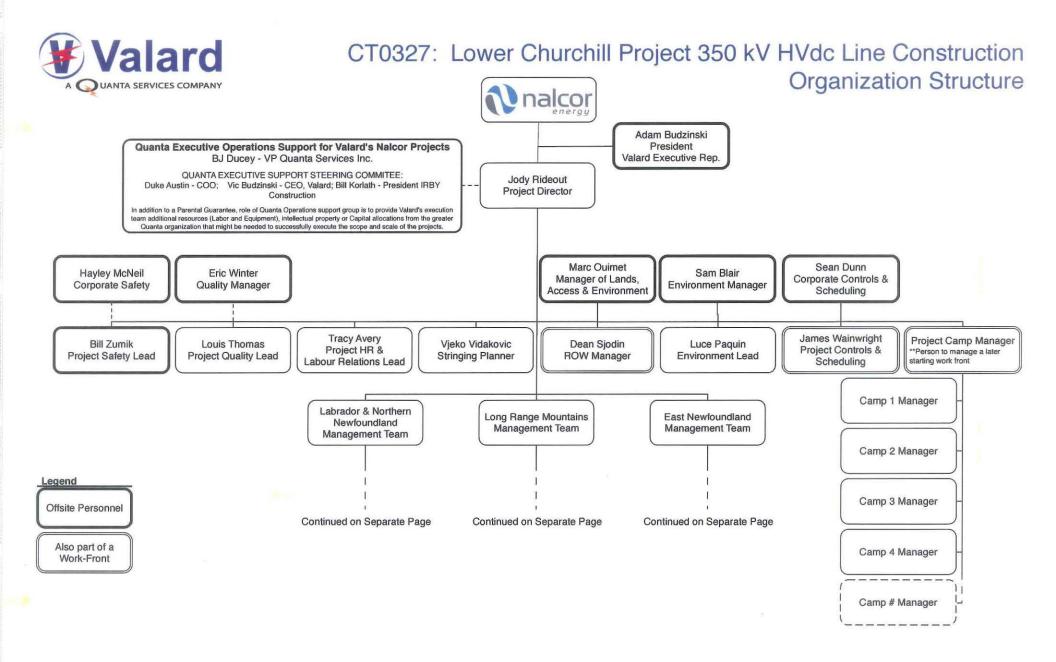
4 attachments





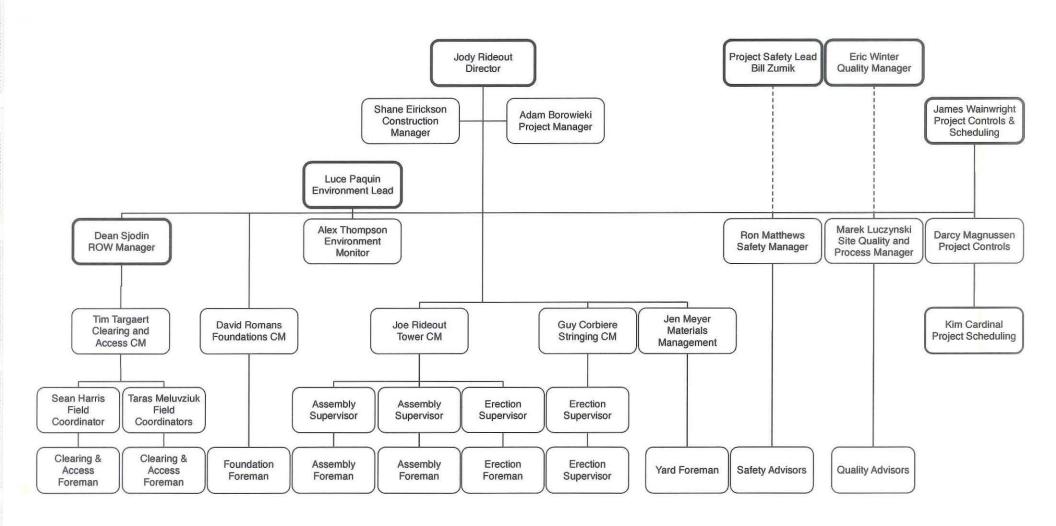


East NL Spread Org Chart.pdf Lab and Nor NL Spread Org Chart.pdf Lead Org Chart.pdf ATT00001.txt



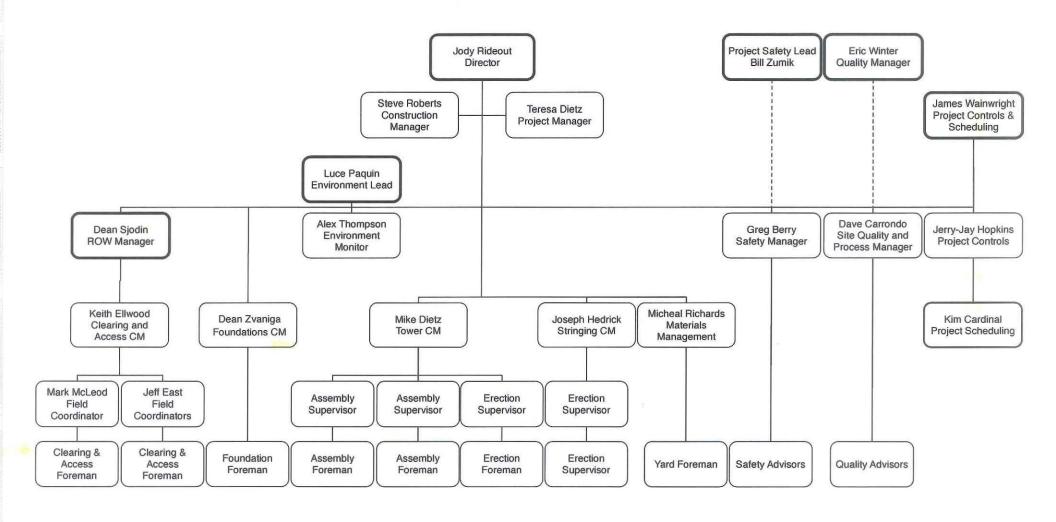


CT0327: Lower Churchill Project 350 kV HVdc Line Construction Labrador & Northern Newfoundland Work Front Organization Structure





CT0327: Lower Churchill Project 350 kV HVdc Line Construction Mid to Eastern Newfoundland Work Front Organization Structure





RE: Actions for HVDC contract - Tilos Schedule

Dunn, Sean

to:

JasonKean@lowerchurchillproject.ca

12/23/2013 03:51 PM

Cc:

"Budzinski, Adam", "Ducey, BJ", "Rosychuk, Dean"

Hide Details

From: "Dunn, Sean" <SDunn@valard.com>

To: "JasonKean@lowerchurchillproject.ca" < JasonKean@lowerchurchillproject.ca>,

Cc: "Budzinski, Adam" <ABudzinski@valard.com>, "Ducey, BJ"

<BDucey@QuantaServices.com>, "Rosychuk, Dean" <DRosychuk@valard.com>

History: This message has been replied to and forwarded.

2 Attachments



NALCOR Combined Dec23 3.pdf

Hi Jason,

Please find attached the updated Tilos schedule showing both the AC and DC lines.

Thank you,

Sean



Sean Dunn, P.Eng., PMP | Corporate Controls Manager | Valard Construction LP Valard Sean Dunn, P.Eng., PMP | Corporate Controls Manager | Vala 4209 - 99 Street | Edmonton, AB T6E 5V7 | www.valard.com Main: 780.436.9876 | Fax: 780.577.4835 | Cell: 587.985.6680

email: sdunn@valard.com

Quanta Services, Inc. (NYSE: PWR) | www.guantaservices.com

From: JasonKean@lowerchurchillproject.ca [mailto:JasonKean@lowerchurchillproject.ca]

Sent: Sunday, December 15, 2013 10:11 AM

To: Dunn, Sean

Cc: Budzinski, Adam; Ducey, BJ

Subject: RE: Actions for HVDC contract - Tilos Schedule

Thanks Sean.

Adam,

It would be useful to have the AC TL overlaid on this Tilos schedule. Is it possible to do this for tomorrow?

Jason

Jason R. Kean, P. Eng., MBA, PMP **Deputy General Project Manager PROJECT DELIVERY TEAM Lower Churchill Project** t. 709 737-1321 c. 709 727-9129 f. 709 754-0787

Deputy General Project Manager PROJECT DELIVERY TEAM **Lower Churchill Project**

t. 709 737-1321 c. 709 727-9129 f. 709 754-0787

- e. JasonKean@lowerchurchillproject.ca
- w. muskratfalls.nalcorenergy.com

You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?

Keenan Healey/LCP/NLHydro

To:

"Ducey, BJ" < BDucey@QuantaServices.com >,

Claude Daneau/LCP/NLHydro@NLHYDRO, David Haley/LCP/NLHydro@NLHYDRO, Jason Kean/NLHydro@NLHYDRO, Kyle Tucker/NLHydro@NLHYDRO, Lance Clarke/NLHydro@NLHYDRO, Nick Ternasky/NLHydro@NLHYDRO, "Mongrain, Normand"

<Normand.Mongrain@snclavalin.com</p>, Pat Hussey/NLHydro@NLHYDRO, Richard Donica/NLHydro@NLHYDRO

Date:

12/12/2013 12:27 PM

Subject:

Actions for HVdc contract

Hi BJ,

Please find attached the updated action list - can you please distribute to your team for the completion of the Valard specific items.

Cheers.

Keenan

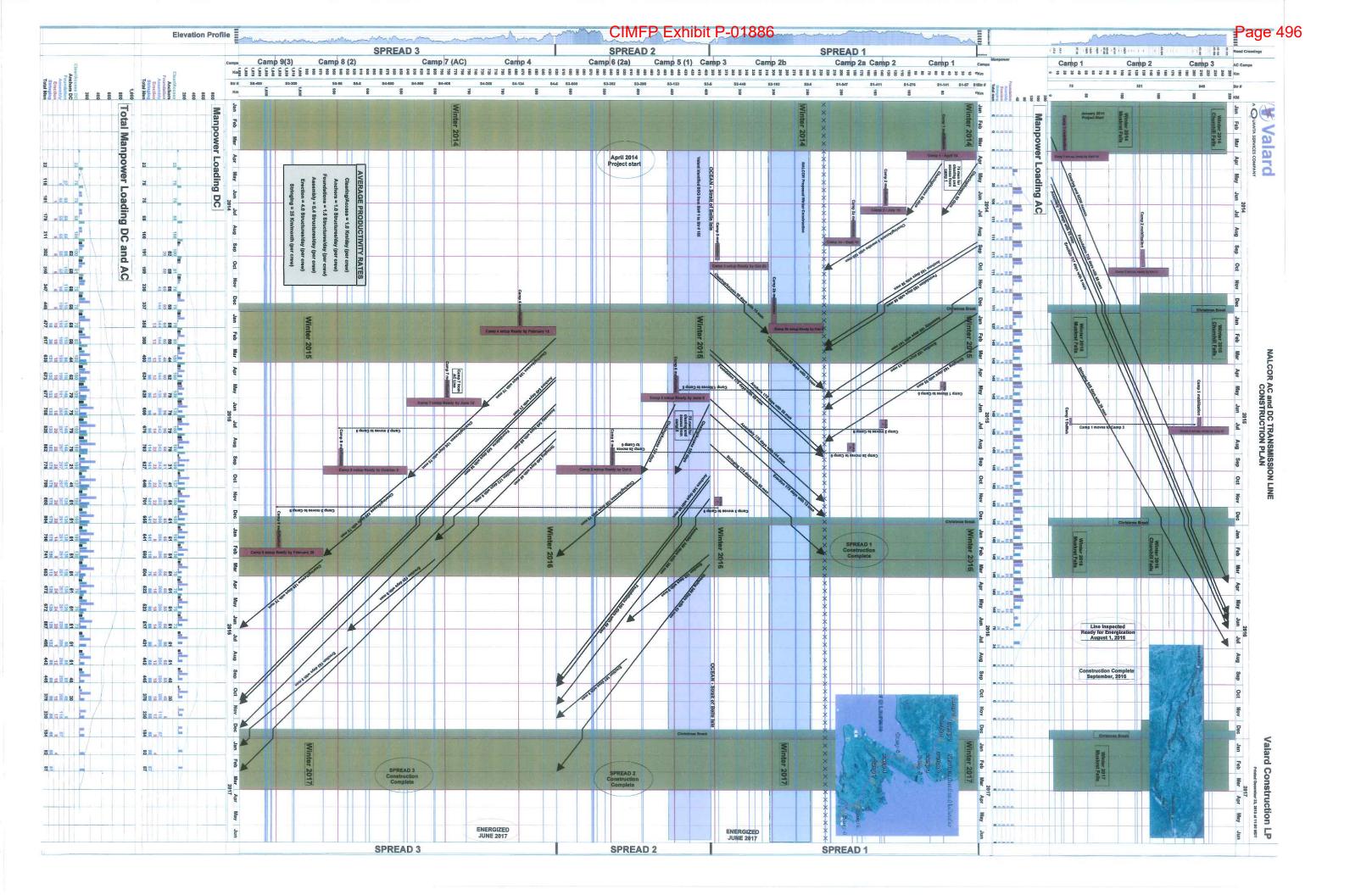
Keenan Healey

Area Manager - Overhead HVdc Transmission **PROJECT DELIVERY TEAM Lower Churchill Project**

- t. 709-752-3461 x55067 c. 709-730-1527
- e. KeenanHealey@lowerchurchillproject.ca
- w. muskratfalls.nalcorenergy.com

You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?

[attachment "Nalcor Valard Take aways 12-Dec-2013.xlsx" deleted by Jason Kean/NLHydro] [attachment "image001.png" deleted by Jason Kean/NLHydro] [attachment "NALCOR DC LINE DEC13 TILOS Schedule.pdf" deleted by Jason Kean/NLHydro]



nalcor energy LOWER CHURCHILL PROJECT

Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

ATTACHMENT 10

VALARD'S 24-FEBRUARY-2014 PROPOSAL

Section 1										
Section 3 \$ 452,238,713		Section 1	\$	460,683,884			Target		Difference	
Section 1 \$ 358,242,263		Section 2	\$	269,563,937						
Section 1 \$ 358,242,263		Section 3	\$	452,238,713						
Section 2 \$ 216,327,268 Section 3 \$ 334,623,821 Revised \$ 909,193,351 \$ 831,833 per km \$ 720,000,000 \$ 658,737 \$ 189,193,351 Line Cost Reductions Potential Savings Tower Assembly Cost Review \$ 13,000,000		Original Total	\$	1,182,486,535						
Section 3 \$ 334,623,821 \$ 909,193,351 \$ 831,833 per km \$ 720,000,000 \$ 658,737 \$ 189,193,351		Section 1	\$	358,242,263						
Revised \$ 909,193,351 \$ 831,833 per km \$ 720,000,000 \$ 658,737 \$ 189,193,351		Section 2	\$	216,327,268						
Line Cost Reductions		Section 3	\$	334,623,821						
Tower Assembly Cost Review \$ 13,000,000		Revised	\$	909,193,351	\$ 831,833	per km	\$ 720,000	0,000 \$ 658,737	\$ 189,193,351	
Tower Assembly Cost Review \$ 13,000,000										
Review of Stringing Production \$ 5,500,000 Section 1 \$ 109,513,383.77 Section 1 Craft MH 1,062,151 Reduce Equipment Costs \$ 11,000,000 Section 2 \$70,455,237.53 Craft MH For Camp1 192,618 70 km of 360 Labrador Hauling \$ 4,000,000 Section 3 \$105,575,556.96 Man Days 17,511 Newfoundland Hauling \$ 4,000,000 \$ 285,544,178.26 Total Project Labour Cost = \$ 4,377,684 at \$250 / Ma 3% Labour Rate Reduction \$ 8,566,325 \$ 8,566,325.35 3% of Total Free Issue Camp Nalcor @ MF \$ 4,500,000 17510.7374 Reduction in Indirects \$ 4,000,000 17510.7374	Line Cost	Reductions	Poten	tial Savings						
Reduce Equipment Costs \$ 11,000,000 Section 2 \$70,455,237.53 Craft MH For Camp1 192,618 70 km of 360 Labrador Hauling \$ 4,000,000 \$ 285,544,178.26 Man Days 17,511 Newfoundland Hauling \$ 4,000,000 \$ 285,544,178.26 Total Project Labour Cost = \$ 4,377,684 at \$250 / Mal 3% Labour Rate Reduction \$ 8,566,325 \$ 8,566,325.35 3% of Total Free Issue Camp Nalcor @ MF \$ 4,500,000 17510.7374 Reduction in Indirects \$ 4,000,000 17510.7374 Foundation Design Potential \$ 20,000,000		Tower Assembly Cost Review	\$	13,000,000		Labour only cost				
Labrador Hauling \$ 4,000,000 Section 3 \$105,575,556.96 Man Days 17,511 Newfoundland Hauling \$ 4,000,000 \$ 285,544,178.26 Total Project Labour Cost = \$ 4,377,684 at \$250 / Mar Section 9 \$ 8,566,325 \$ 8,566,325.35 3% of Total Free Issue Camp Nalcor @ MF \$ 4,500,000 Camp Setup \$ 500,000 17510.7374 Reduction in Indirects \$ 4,000,000 Foundation Design Potential \$ 20,000,000		Review of Stringing Production	\$	5,500,000	Section 1	\$ 109,513,383.77		Section 1 Craft MH	1,062,151	
Newfoundland Hauling \$ 4,000,000 \$ 285,544,178.26 Total Project Labour Cost = \$ 4,377,684 at \$250 / Mai 3% Labour Rate Reduction \$ 8,566,325 \$ 8,566,325.35 3% of Total Free Issue Camp Nalcor @ MF \$ 4,500,000 17510.7374 Reduction in Indirects \$ 4,000,000 17510.7374 Foundation Design Potential \$ 20,000,000		Reduce Equipment Costs	\$	11,000,000	Section 2	\$70,455,237.53		Craft MH For Camp1	192,618	70 km of 360 km
3% Labour Rate Reduction \$ 8,566,325 \$ 8,566,325.35 3% of Total Free Issue Camp Nalcor @ MF \$ 4,500,000 Camp Setup \$ 500,000 17510.7374 Reduction in Indirects \$ 4,000,000 Foundation Design Potential \$ 20,000,000		Labrador Hauling	\$	4,000,000	Section 3	\$105,575,556.96		Man Days	17,511	
Free Issue Camp Nalcor @ MF \$ 4,500,000 Camp Setup \$ 500,000 Reduction in Indirects \$ 4,000,000 Foundation Design Potential \$ 20,000,000		Newfoundland Hauling	\$	4,000,000		\$ 285,544,178.26	Total Pr	oject Labour Cost =	\$ 4,377,684	at \$250 / ManDay
Camp Setup \$ 500,000 17510.7374 Reduction in Indirects \$ 4,000,000 Foundation Design Potential \$ 20,000,000		3% Labour Rate Reduction	\$	8,566,325		\$ 8,566,325.35		3% of Total		
Reduction in Indirects \$ 4,000,000 Foundation Design Potential \$ 20,000,000		Free Issue Camp Nalcor @ MF	\$	4,500,000						
Foundation Design Potential \$ 20,000,000		Camp Setup	\$	500,000		17510.7374				
		Reduction in Indirects	\$	4,000,000						
Total Savings \$ 75,066,325		Foundation Design Potential	\$	20,000,000	196					
	i	Total Savings	\$	75,066,325						

834,127,026 \$ 762,456.15 /km

\$

Orig

lexing 4820 million (9% masin)



Nalcor 350kV HVdc Clarifications and Assumptions

- 1. Camp Permits Provided early
- 2. 39 month schedule
- 3. Foundation uplift testing not included.
- Material density / strength testing not included. (grout / concrete break tests, Proctor and compaction tests)
- 5. Anchor test to failure not included.
- 6. Foundation uplift testing not included.
- 7. Material density / strength testing not included. (grout / concrete break tests, Proctor and compaction tests)
- 8. Anchor test to failure not included.
- 9. Rock anchor pull testing to failure not included.
- 10. Portland cement based grout / concrete assumed for all locations.
- 11. Rates are valid for 2014. Yearly rate escalation, based on the IBEW project union agreement, is assumed for 2015 through to completion.
- 12. Flagging the right of way is based on offsets from IFC coordinates or receipt of right of way alignment coordinates.
- 13. Legal survey of the right of way is out of scope (exposing survey statutory monuments). This would require a sub contract to a local commissioned land surveyor and we have excluded this from our scope.
- 14. Valard assumes the receipt of stamped IFC coordinates prior to commencement of the project (time of access).
- 15. H-pile foundation pricing is based on the conceptual design and is to be validated once a site specific geotechnical report is completed. The intent is to tie the pricing to the conceptual designs provided and any deviation from these may impact pricing.



- 16. We suggest implementing an H-pile pricing structure similar to the final pricing structure used on the Nalcor HVac project that has various lengths and a splice rate, as this would allow for flexibility when the design is validated.
- 17. Anchor pull testing pricing is based on the availability of a suitable reaction surface being available.
- 18. All referenced contract documents not supplied to date are assumed to be equivalent to similar documents provided with the 315kVac RFP.
- 19. Bridge costs include site plan, engineer, supply & install assume that abutments can be installed using local timber.
- 20. Corduroy road cost only includes supply and installation of corduroy based on maximum haul of 450m and branches left on.
- 21. All drilling and blasting for road construction to be at a cost of \$35/m3.
- 22. Assumed that the entire ROW and permit availability is conducive to road installation.
- 23. Preliminary Geotechnical investigation by others.
- 24. Pricing for item –I2: Design and supply of micropile option as replacement for H-pile design shall be provided upon provision of Geotechnical data.
- 25. Optional Pricing for culverts larger than 600 mm diameter has not been provided as temporary bridges will be more economical.
- 26. Optional Pricing for mulching has not been provided as mulching has been included in the clearing price in all areas where mulching is desirable.



PDF Copies of Pricing Information from Presentation Malainey, Joe

to:

JasonKean@lowerchurchillproject.ca

01/13/2014 03:52 AM

Cc:

"Budzinski, Victor", "Budzinski, Adam", "Ducey, BJ", "Rideout, Jody", "Murphy, Gary" Hide Details

From: "Malainey, Joe" < J Malainey@valard.com > Sort List...

To: "JasonKean@lowerchurchillproject.ca" < JasonKean@lowerchurchillproject.ca>,

Cc: "Budzinski, Victor" < VBudzinski@valard.com>, "Budzinski, Adam"

<ABudzinski@valard.com>, "Ducey, BJ" <BDucey@QuantaServices.com>, "Rideout, Jody"

<JRideout@valard.com>, "Murphy, Gary" <gmurphy@QuantaServices.com>

History: This message has been forwarded.

3 Attachments



NALCOR 350 kV HVdc Line Construction front 1-Jan 10.pdf



NALCOR 350 kV HVdc Line Construction Front 2-Jan 10.pdf



NALCOR 350 kV HVdc Line Construction front 3-Jan 10.pdf

Hello Jason:

We have completed our review of the documents, corrected a few minor errors and have compiled the pricing information for all 3 sections.

The completed pricing documents are attached.

We reiterate our position on confidentiality of this information. This information is released to Nalcor with the understanding that this information shall not be shared with anyone from SNC.

The documents attached expose much of our proprietary bidding process. As SNC is responsible for procuring a significant portion of the transmission line and substation construction work in Alberta, the release of this information to SNC will put us at a great disadvantage.

We also request that, in the spirit of openness and cooperation, any available tower assembly drawings be forwarded to Valard in order that we may verify our tower assembly and installation pricing.

Regards, Joe



Joe Malainey P. Eng | Project Manager | Valard LP Suite 200, 3595-114th Ave SE | Calgary, AB T2Z 3X2 www.valard.com

Main: 403.279.1003 | Fax: 403.236.1303 | Cell: 403.510.7617

email: jmalainey@valard.com

Quanta Services, Inc. (NYSE: PWR) | www.quantaservices.com



LOWER CHURCHILL PROJECT CT0327 CONSTRUCTION OF 350kV HVdc TRANSMISSION LINE: SEGMENT 1

Valard Construction LP

Rev 00, 01-Nov-2013 SCHEDULE OF PRICE BREAKDOWN

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-A	General Works (S1-Ax)								
S1-A1	Mobilization and Demobilization Initial Mobilization	LS	1	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000.00	\$ 2,000,000.00
S1-A2	Final Demobilization	LS	1	\$ -	\$ -	\$ -	\$ -		\$ -
S1-A3	Accommodation Camp Accommodation Camp Installation	LS	1	\$ 283,223.07	\$ 19,080,272,38	\$ 12,461,085.39	\$ 25,391,427.11	\$ 56,932,784.88	\$ 56,932,784.88
S1-A4	Boarding and Lodging for Company/Engineer with 3 meals per day	person-day	24,000	\$ 34,302.86	\$ 2,173,440.00	\$ 927,360.00	\$ 2,899,440.00		\$ 6,000,240.00
S1-A5	Meals for Company/Engineer visitors	meal	2,000	\$ 476.52	\$ 30,200.00	\$ 12,880.00	\$ 40,280.00	\$ 41.68	\$ 83,360.00
S1-A6	Performance Security Parent Guarantee Article 7.4	LS	1	\$ -	\$ -	\$ -	\$ -	Ś -	\$ -
S1-A0	Letter Of Credit Article 7.6	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-A8	Performance Bonding Article 7.1	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-A9	Labour and Materials Bonding Article 7.2	Sub-total (S1-Ax)	: General Works	\$ - 318,002.45	\$ - \$ 21,283,912.38	\$ - \$ 13,401,325.39	\$ - \$ 28,331,147.11	\$ - \$ 58,933,076.57	\$ - \$ 65,016,384.88
S1-B	Right-of-Way Clearing - Direct Costs (S1-Bx)		. Ceneral Works	010,001.10	+ ==,===,=====	+ 10,101,010.00	+ 10,001,11111	ψ σομσομοί στου	+ 05,010,0000
	Right-Of-Way Clearing								
S1-B1 S1-B2	ROW Clearing Removal of selected danger trees	Ha EA	2,207 1,000	\$ 267,992.86 \$ 1,304.35	\$ 21,573,425.00 \$ 105,000.00	\$ - \$ -	\$ 21,573,425.00 \$ 105,000.00	\$ 19,550.00 \$ 210.00	\$ 43,146,850.00 \$ 210,000.00
S1-B3	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized	LM	1,358	\$ 2,155.96	\$ 57,850.80	\$ 347,104.80	\$ 173,552.40		\$ 578,508.00
S1-B4	type 2 Supply and Installation of Bridge - 3 m	EA	141	\$ 17,182.73	\$ 461,070.00	\$ 2,766,420.00	\$ 1,383,210.00	\$ 32,700.00	\$ 4,610,700.00
S1-B5	Supply and Installation of Bridge - 4 m	EA	2	\$ 324.97	\$ 8,720.00	\$ 52,320.00	\$ 26,160.00	\$ 43,600.00	\$ 87,200.00
S1-B6 S1-B7	Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 6 m	EA EA	15 5	\$ 3,046.58 \$ 1,218.63	\$ 81,750.00 \$ 32,700.00	\$ 490,500.00 \$ 196,200.00	\$ 245,250.00 \$ 98,100.00	\$ 54,500.00 \$ 65,400.00	\$ 817,500.00 \$ 327,000.00
S1-B8	Supply and Installation of Bridge - 7 m	EA	1	\$ 284.35	\$ 7,630.00	\$ 45,780.00	\$ 22,890.00	\$ 76,300.00	\$ 76,300.00
S1-B9 S1-B10	Supply and Installation of Bridge - 8 m Supply and Installation of Bridge - 10 m	EA EA	3	\$ 1,299.88 \$ 1,218.63	\$ 34,880.00 \$ 32,700.00	\$ 209,280.00 \$ 196,200.00	\$ 104,640.00 \$ 98,100.00	\$ 87,200.00 \$ 109,000.00	\$ 348,800.00 \$ 327,000.00
S1-B11	Supply and Installation of Bridge - 13 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B12 S1-B13	Supply and Installation of Bridge - 14 m Supply and Installation of Bridge - 15 m	EA EA	0	\$ 568.70 \$ -	\$ 15,260.00 \$ -	\$ 91,560.00	\$ 45,780.00 \$ -	\$ 152,600.00 \$ -	\$ 152,600.00 \$ -
S1-B13 S1-B14	Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 16 m	EA	1	\$ 649.94	\$ 17,440.00	\$ 104,640.00	\$ 52,320.00	\$ 174,400.00	\$ 174,400.00
S1-B15	Supply and Installation of Bridge - 25 m	EA EA	0	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -
S1-B16 S1-B17	Supply and Installation of Bridge - 35 m Supply and Installation of Bridge - 50 m	EA EA	0 1	\$ - \$ 2,031.06	\$ - \$ 54,500.00	\$ 327,000.00	\$ 163,500.00	\$ 545,000.00	\$ - \$ 545,000.00
S1-B18	Supply and Installation of Bridge - 60 m	EA	1	\$ 2,437.27	\$ 65,400.00	\$ 392,400.00	\$ 196,200.00	\$ 654,000.00	\$ 654,000.00
S1-B19 S1-B20	Supply and Installation of Bridge - 65 m Installation of Corduroy Road	EA LM	1 4,915	\$ 2,640.37 \$ 2,554.26	\$ 70,850.00 \$ 68,515.10	\$ 425,100.00 \$ 411,238.05	\$ 212,550.00 \$ 205,594.45	\$ 708,500.00 \$ 139.44	\$ 708,500.00 \$ 685,347.60
S1-B21	Installation of Access Road - Access Class 3	KM	415	\$ 124,809.32	\$ 3,349,050.00	\$ 20,094,300.00	\$ 10,047,150.00	\$ 80,700.00	\$ 33,490,500.00
S1-B22 S1-B23	Installation of Access Road - Access Trail Installation of Access Road - Bypass Trail	KM	20 6	\$ 6,014.91 \$ 1,804.47	\$ 161,400.00 \$ 48,420.00	\$ 968,400.00 \$ 290,520.00	\$ 484,200.00 \$ 145,260.00	\$ 80,700.00 \$ 80,700.00	\$ 1,614,000.00 \$ 484,200.00
S1-B24	Installation of Access Road - Ice Bridge	LM	35	\$ 939.13	\$ 25,200.00	\$ 151,200.00	\$ 75,600.00	\$ 7,200.00	\$ 252,000.00
	Sub-total (S1-Bx) : Rig			440,478.35	\$ 26,271,760.90	\$ 27,560,162.85	\$ 35,458,481.85	\$ 2,972,825.44	\$ 89,290,405.60
\$1-B	Right-of-Way Clearing for Wood Pole Electro	de Line- Direct C	osts (S1-Bx)						
S1-B25	Right-Of-Way Clearing ROW Clearing	На	18	\$ 2,185.71	\$ 175,950.00	\$ -	\$ 175,950.00	\$ 19,550.00	\$ 351,900.00
S1-B26	Removal of selected danger trees	EA	42	\$ 54.78	\$ 4,410.00	\$ -	\$ 4,410.00	\$ 210.00	\$ 8,820.00
S1-B27	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	LM	11	\$ 17.46		• •			
S1-B28 S1-B29	Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 4 m	EA EA	0	\$ 121.86 \$ -	\$ 3,270.00 \$ -	\$ 19,620.00 \$ -	\$ 9,810.00 \$ -	\$ 32,700.00	\$ 32,700.00
S1-B30	Supply and Installation of Bridge - 5 m	EA	1	\$ 203.11	•	•	•	\$ 54,500.00	\$ 54,500.00
S1-B31 S1-B32	Supply and Installation of Bridge - 6 m	EA EA	1	\$ 243.73 \$ 284.35	•			\$ 65,400.00 \$ 76,300.00	\$ 65,400.00 \$ 76,300.00
S1-B32	Supply and Installation of Bridge - 7 m Supply and Installation of Bridge - 8 m	EA	1	\$ 324.97				\$ 87,200.00	\$ 87,200.00
S1-B34	Supply and Installation of Bridge - 10 m	EA	1	\$ 406.21	\$ 10,900.00		\$ 32,700.00	\$ 109,000.00	\$ 109,000.00
S1-B35 S1-B36	Supply and Installation of Bridge - 13 m Supply and Installation of Bridge - 14 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-B37	Supply and Installation of Bridge - 15 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B38 S1-B39	Supply and Installation of Bridge - 16 m Supply and Installation of Bridge - 25 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-B40	Supply and Installation of Bridge - 35 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B41 S1-B42	Supply and Installation of Bridge - 50 m Supply and Installation of Bridge - 60 m	EA EA	0	\$ - \$ 2,437.27	\$ -	\$ - \$ 392,400.00	\$ - \$ 196,200.00	\$ - \$ 654,000.00	\$ 654,000.00
S1-B43	Supply and Installation of Bridge - 65 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B44	Installation of Corduroy Road	LM	20	\$ 10.39				\$ 139.44	\$ 2,788.80
S1-B45 S1-B46	Installation of Access Road - Access Class 3 Installation of Access Road - Access Trail	KM	0	\$ 601.49 \$ -	\$ 16,140.00 \$ -	\$ 96,840.00 \$ -	\$ 48,420.00 \$ -	\$ 80,700.00 \$ -	\$ 161,400.00 \$ -
S1-B47	Installation of Access Road - Bypass Trail	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	al (S1-Bx) : Right-of-Way Clearing for Wood	Pole Electrode Lii	ne - Direct Costs	6,891.34	\$ 305,157.40	\$ 748,785.00	\$ 554,752.40	\$ 1,180,125.44	\$ 1,608,694.80
S1-C	Tower Foundation Construction (S1-Cx)								
	Guy Wire Anchors								
S1-C1	Installation of Guy Wire Anchor in soil as per design drawings and technical specification	LM	32,500	\$ 93,361.08	\$ 4,694,300.00	\$ 1,703,650.00	\$ 8,830,900.00	\$ 468.58	\$ 15,228,850.00
S1-C2	Installation of Guy Wire Anchor in rock as per design drawings and technical specification	LM	31,500	\$ 83,954.65	\$ 4,213,440.00	\$ 1,483,965.00	\$ 7,935,795.00	\$ 432.80	\$ 13,633,200.00
S1-C2	Testing of Guy Wire Anchor up to 550kN as per design drawings and technical specification	Ea	2,892	\$ 8,202.69	\$ 1,243,964.88	\$ -	\$ 1,854,581.76	\$ 1,071.42	\$ 3,098,546.64
S1-C2	Testing of Guy Wire Anchorup to 900kN as per design drawings and	Ea	1,572	\$ 4,458.72	\$ 676,180.08	\$ -	\$ 1,008,092.16		\$ 1,684,272.24
	technical specification Grillage Foundations			, =====================================	,			, -	
S1-C3	Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1.	EA	36	\$ 2,083.50	\$ 248,085.00	\$ 4,869.00	\$ 275,307.12	\$ 14,673.92	\$ 528,261.12
S1-C4	Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2.	EA	17	\$ 1,432.52	\$ 168,229.45	\$ 3,870.22	\$ 189,652.00	\$ 21,279.51	\$ 361,751.67
S1-C5	Assembly and Installation of Foundation Types A3-1 (100 kPa) as per	EA	1	\$ 70.54	\$ 8,351.92	\$ 183.07	\$ 9,326.56	\$ 17,861.55	\$ 17,861.55
S1-C6	Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	F0FF73 4533 4300 0004 (T T T 44		·	\$ 189.25	\$ 22,126.18	\$ 523.14	\$ 25,072.70	\$ 23,861.01	\$ 47,722.02
	Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per	FΛ	,	7 103.25	22,120.18	y 525.14	25,072.70	23,001.U1	, , ,
S1-C7		EA	2	ė 3=-00-	ć 4F2 04F 05	ė 0 oc	ć 404 F	ć 33.03c.0:	¢ 0-70.0
S1-C7 S1-C8	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2.	EA	40	\$ 3,746.82	\$ 453,817.60		\$ 494,547.60		\$ 957,040.40
S1-C7	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1.			\$ 8,765.61	\$ 453,817.60 \$ 1,059,560.32	\$ 12,073.60	\$ 494,547.60 \$ 1,158,207.12		
S1-C7 S1-C8	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2.	EA	40			\$ 12,073.60		\$ 11,376.74	\$ 2,229,841.04
S1-C7 S1-C8 S1-C9	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3.	EA EA	40 196	\$ 8,765.61	\$ 1,059,560.32	\$ 12,073.60 \$ 11,748.24	\$ 1,158,207.12	\$ 11,376.74 \$ 18,480.92	\$ 2,229,841.04 \$ 1,811,130.16
\$1-C7 \$1-C8 \$1-C9 \$1-C10	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per	EA EA	40 196 98	\$ 8,765.61 \$ 7,080.42	\$ 1,059,560.32 \$ 864,728.48	\$ 12,073.60 \$ 11,748.24	\$ 1,158,207.12 \$ 934,653.44	\$ 11,376.74 \$ 18,480.92	\$ 2,229,841.04 \$ 1,811,130.16
\$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1A (250 kPa) as per	EA EA EA	40 196 98 6	\$ 8,765.61 \$ 7,080.42 \$ 292.30	\$ 1,059,560.32 \$ 864,728.48 \$ 35,227.32	\$ 12,073.60 \$ 11,748.24 \$ 490.92	\$ 1,158,207.12 \$ 934,653.44 \$ 38,638.50	\$ 11,376.74 \$ 18,480.92 \$ 12,392.79 \$ -	\$ 2,229,841.04 \$ 1,811,130.16 \$ 74,356.74
\$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11 \$1-C12	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1.	EA EA EA EA	40 196 98 6	\$ 8,765.61 \$ 7,080.42 \$ 292.30 \$ -	\$ 1,059,560.32 \$ 864,728.48 \$ 35,227.32 \$ -	\$ 12,073.60 \$ 11,748.24 \$ 490.92 \$ -	\$ 1,158,207.12 \$ 934,653.44 \$ 38,638.50 \$ -	\$ 11,376.74 \$ 18,480.92 \$ 12,392.79 \$ -	\$ 2,229,841.04 \$ 1,811,130.16 \$ 74,356.74 \$ -
\$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11 \$1-C12 \$1-C13	Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1.	EA EA EA EA EA	40 196 98 6 0	\$ 8,765.61 \$ 7,080.42 \$ 292.30 \$ - \$ 788.52	\$ 1,059,560.32 \$ 864,728.48 \$ 35,227.32 \$ - \$ 92,928.03	\$ 12,073.60 \$ 11,748.24 \$ 490.92 \$ - \$ 1,668.68	\$ 1,158,207.12 \$ 934,653.44 \$ 38,638.50 \$ - \$ 104,425.62	\$ 11,376.74 \$ 18,480.92 \$ 12,392.79 \$ - \$ 15,309.41 \$ -	\$ 2,229,841.04 \$ 1,811,130.16 \$ 74,356.74 \$ - \$ 199,022.33



								Vara	
Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-C16	Assembly and Installation of Foundation Types C2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types C2.	EA	32	\$ 3,385.56	\$ 407,108.80	\$ 8,970.24	\$ 446,932.16	\$ 26,969.10	\$ 863,011.20
S1-C17	Assembly and Installation of Foundation Types D1-1 (100 kPa) as per	EA	56	\$ 6,095.97	\$ 727,023.92	\$ 16,979.20	\$ 805,140.00	\$ 27,663.27	\$ 1,549,143.12
S1-C18	Dwg 505573-4622-42DD-0003 for Tower Types D1. Assembly and Installation of Foundation Types D2-1 (100 kPa) as per	EA	28	\$ 3,250.61	\$ 390,004.44		•	\$ 29,585.03	
S1-C19	Dwg 505573-4622-42DD-0003 for Tower Types D2. Assembly and Installation of Foundation Types E1-1 (100 kPa) as per	EA	24	\$ 2,971.09	\$ 352,722.96			\$ 31,421.67	\$ 754,120.08
S1-C20	Dwg 505573-4622-42DD-0003 for Tower Types E1. Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	EA	6	\$ -	\$ -	\$ -	\$ -	\$ 51,421.07	\$ 754,120.00
31-020	technical specification for Tower Types C1, or D2, or E1. Downward, uplift, and lateral load testing per leg for Types C1-3, or	EA .	0	-	· -	,	-	- -	-
S1-C21	D2-3, or E1-3 as per technical specification for Tower Types C1, or D2, or E1.	EA	6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Rock Foundations								
S1-C22	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573- 4622-42DD-0074 for Tower Type A1	EA	253	\$ 23,784.35	\$ 2,564,903.88	\$ 289,889.93	\$ 3,129,425.31	\$ 23,653.04	\$ 5,984,219.12
S1-C23	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573 4622-42DD-0074 for Tower Type A2	EA	125	\$ 13,678.97	\$ 1,458,370.00	\$ 209,881.25	\$ 1,797,388.75	\$ 27,725.12	\$ 3,465,640.00
S1-C24	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573 4622-42DD-0074 for Tower Type A3	EA	7	\$ 658.06	\$ 70,965.72	\$ 8,020.67	\$ 86,584.89	\$ 23,653.04	\$ 165,571.28
S1-C25	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- 4622-42DD-0074 for Tower Type A4	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C26	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573- 4622-42DD-0074 for Tower Type B1	EA	17	\$ 1,839.94	\$ 195,020.09	\$ 28,543.85	\$ 241,811.40	\$ 27,375.02	\$ 465,375.34
S1-C27	Assembly and Installation of Foundation Type B2-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type B2	EA	43	\$ 6,616.22	\$ 678,906.79	\$ 72,062.41	\$ 874,110.45	\$ 37,792.55	\$ 1,625,079.65
S1-C28	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573	EA	22	\$ 1,416.37	\$ 149,627.72	\$ 20,110.42	\$ 186,492.46	\$ 16,192.30	\$ 356,230.60
	4622-42DD-0058 for Tower Type A1 (Weak Surface Rock)			7 1,410.07	Ţ 143,027.72	20,110.42	100,432.40	7 10,132.30	330,230.00
S1-C29	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A2 (Weak Surface Rock)	EA	11	\$ 761.48	\$ 79,475.99	\$ 16,776.21	\$ 99,760.76	\$ 17,819.36	\$ 196,012.96
	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573								
S1-C30	4622-42DD-0058 for Tower Type A3 (Weak Surface Rock)	EA	1	\$ 66.95	\$ 7,022.85	\$ 1,244.21	\$ 8,791.08	\$ 17,058.14	\$ 17,058.14
S1-C31	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573 4622-42DD-0058 for Tower Type A4 (Weak Surface Rock)	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C32	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type B1 (Weak Surface Rock)	EA	3	\$ 209.99	\$ 21,873.33	\$ 4,875.27	\$ 27,490.14	\$ 18,079.58	\$ 54,238.74
S1-C33	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573	EA	191	\$ 11,155.11	\$ 1,162,733.51	\$ 174,595.01	\$ 1,467,661.19	\$ 14,685.81	\$ 2,804,989.71
	4622-42DD-0058 for Tower Type A1 (Sound Surface Rock)	<u>.</u> .		, 11,133.11	, -,102,733.31	- 1,-,JJJ.UI	, _,-0,,001.13	, 17,000.01	,007,303.71
S1-C34	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A2 (Sound Surface Rock)	EA	94	\$ 5,945.39	\$ 612,076.30	\$ 143,360.34	\$ 777,974.08	\$ 16,312.88	\$ 1,533,410.72
64.625	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573	5.		ć 205.00	Ć 27.055.20	\$ 7.46F.26	¢ 47,000.44	Ć 15.551.65	ć 02.200.00
S1-C35	4622-42DD-0058 for Tower Type A3 (Sound Surface Rock)	EA	6	\$ 365.86	\$ 37,855.20	\$ 7,465.26	\$ 47,989.44	\$ 15,551.65	\$ 93,309.90
S1-C36	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A4 (Sound Surface Rock)	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-								
S1-C37	4622-42DD-0058 for Tower Type B1 (Sound Surface Rock)	EA	13	\$ 832.27	\$ 85,507.11	\$ 21,126.17	\$ 108,817.02	\$ 16,573.10	\$ 215,450.30
S1-C38	Assembly and Installation of Foundation Type B2-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type B2 (surface rock)	EA	32	\$ 4,888.33	\$ 502,514.88	\$ 53,627.84	\$ 645,726.72	\$ 37,558.42	\$ 1,201,869.44
S1-C39	Assembly and Installation of Foundation Type C1-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type C1	EA	28	\$ 4,109.29	\$ 419,613.32	\$ 46,924.36	\$ 542,727.92	\$ 36,045.20	\$ 1,009,265.60
S1-C40	Assembly and Installation of Foundation Type C2-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type C2	EA	36	\$ 5,550.30	\$ 569,243.52	\$ 60,331.32	\$ 733,317.48	\$ 37,858.12	\$ 1,362,892.32
S1-C41	Assembly and Installation of Foundation Type D1-2 as per Dwg 505573 4622-42DD-0026 for Tower Type D1	EA	60	\$ 8,992.36	\$ 913,523.40	\$ 100,552.20	\$ 1,188,196.80	\$ 36,704.54	\$ 2,202,272.40
S1-C42	Assembly and Installation of Foundation Type D2-2 as per Dwg 505573 4622-42DD-0026 for Tower Type D2	EA	36	\$ 5,611.41	\$ 573,940.44	\$ 60,331.32	\$ 741,567.60	\$ 38,217.76	\$ 1,375,839.36
S1-C43	Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-	EA	24	\$ 3,630.89	\$ 368,018.88	\$ 40,220.88	\$ 479,862.00	\$ 37,004.24	\$ 888,101.76
S1-C44	4622-42DD-0026 for Tower Type E1 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-	EA	28	\$ 4,109.29				\$ 36,045.20	
S1-C45	4622-42DD-0026 for Tower Type C1 (surface rock) Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-	EA	28	\$ 4,316.90				\$ 37,858.12	
S1-C46	4622-42DD-0026 for Tower Type C2 (surface rock) Assembly and Installation of Foundation Type D1-2 as per Dwg 505573		52						
	4622-42DD-0026 for Tower Type D1 (surface rock) Assembly and Installation of Foundation Type D2-2 as per Dwg 505573	EA						\$ 36,704.54	
S1-C47	4622-42DD-0026 for Tower Type D2 (surface rock) Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-	EA	28	\$ 4,364.43				\$ 38,217.76	
S1-C48	4622-42DD-0026 for Tower Type E1 (surface rock) Installation and Testing of 25M Mechanical Rock Anchor as per design	EA	16	\$ 2,420.60				\$ 37,004.24	
S1-C49	drawings and technical specification	LM	10,443	\$ 12,202.14	\$ 1,078,030.89	\$ 220,765.02	\$ 1,560,601.92	\$ 273.81	\$ 2,859,397.83
S1-C50	Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical specification	LM	618	\$ 753.79	\$ 67,176.60	\$ 16,976.46	\$ 96,624.30	\$ 292.52	\$ 180,777.36
S1-C51	Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technical specification	LM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C52	Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technical specification	LM	22,944	\$ 33,472.90	\$ 2,914,576.32	\$ 950,340.48	\$ 4,255,882.56	\$ 353.94	\$ 8,120,799.36
S1-C53	Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technical specification	LM	296	\$ 478.72	\$ 41,540.64	\$ 17,239.04	\$ 60,739.20	\$ 403.78	\$ 119,518.88
S1-C54	Installation and Testing of 64M Mechanical Rock Anchor as per design drawings and technical specification	LM	40	\$ 69.42	\$ 5,973.60	\$ 2,739.20	\$ 8,780.40	\$ 437.33	\$ 17,493.20
	H-Pile Foundations Design, Assembly and Installation of Foundation Type A1-3 as per Dwg								
S1-C55	505573-4622-42DD-0037 for Tower Type A1 including supply and	EA	7	\$ 1,284.08	\$ 112,181.72	\$ 98,594.79	\$ 120,882.51	\$ 47,379.86	\$ 331,659.02
C4 050	installation of steep cap. Design, Assembly and Installation of Foundation Type A2-3 as per Dwg 505573 4523 4529 0027 for Town Type A3 is cliding supply and	EA	2	¢ 550.00	¢ 40.07=00	¢ 43.054.04	ć F4 000 T0	¢ 47.070.00	ć 442.422.52
S1-C56	505573-4622-42DD-0037 for Tower Type A2 including supply and installation of steep cap.	EA	3	\$ 550.32	\$ 48,077.88	\$ 42,254.91	\$ 51,806.79	\$ 47,379.86	\$ 142,139.58
S1-C57	Design, Assembly and Installation of Foundation Type A3-3 as per Dwg 505573-4622-42DD-0037 for Tower Type A3 including supply and	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	installation of steep cap. Design, Assembly and Installation of Foundation Type A4-3 as per Dwg							<u> </u>	
S1-C58	505573-4622-42DD-0037 for Tower Type A4 including supply and installation of steep cap.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C59	Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42DD-0037 for Tower Type B1 including supply and	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
-	installation of steep cap. Design, Assembly and Installation of Foundation Type B2-3 as per Dwg				-	•		[· 	
S1-C60	505573-4622-42DD-0046 for Tower Type B2 including supply and installation of steep cap.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C61	Installation of steep cap. Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DD-0046 for Tower Type C1 including supply and	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$
21-001	installation of steel cap.	EM	U	· ·	-	-	-	-	-
S1-C62	Design, Assembly and Installation of Foundation Type C2-3 as per Dwg 505573-4622-42DD-0046 for Tower Type C2 including supply and installation of steal cap	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	installation of steel cap. Design, Assembly and Installation of Foundation Type D1-3 per Dwg		_	_	<u> </u>		<u> </u>	<u>,</u>	,
S1-C63	505573-4622-42DD-0046 for Tower Type D1 including supply and installation of steel cap.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C64	Design, Assembly and Installation of Foundation Type D2-3 as per Dwg 505573-4622-42DD-0046 for Tower Type D2 including supply and	EA	4	\$ 3,777.37	\$ 287,223.40	\$ 263,639.80	\$ 311,345.72	\$ 215,552.23	\$ 862,208.92
	installation of steel cap. Design, Assembly and Installation of Foundation Type E1-3 as per Dwg							<u> </u>	
S1-C65	505573-4622-42DD-0046 for Tower Type E1 including supply and installation of steel cap.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C66	Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings and technical specifications (length in bog not	LM	240	\$ 689.44	\$ 34,665.60	\$ 12,580.80	\$ 65,212.80	\$ 468.58	\$ 112,459.20
	considered)							\$ 580.69	
S1-C67	Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT Bog and Poor Soil	LM	1,680	\$ 1,920.12	\$ 209,630.40	\$ 551,224.80	\$ 214,704.00	y 560.09	313,339.20
\$1,000	Supply and Installation of Cribs for excavation protection of tower types A1, A2, A3, A4, B1, B2, C1, C2, D1, D2, E1 for any type of	842	10.000	6 22.702.00	6 2 001 202 20	¢ 2 542 700 00	6 2 400 400 00	ć 000 to	¢ 0.204.400.00
S1-C68	Foundation as per Dwg 505573-4622-42DD-0069 and 505573-4622- 42DD-0071	M2	10,000	\$ 23,700.00	ع در کاری کاری کاری کاری کاری کاری کاری کار	\$ 2,543,700.00	\$ 3,189,400.00	\$ 839.44	\$ 8,394,400.00
64.655	Earthwork		2.000		6 70.000	ć	ė	ė ciai	ć 420.000 o
S1-C69 S1-C70	Transportation of native backfill Supply and transportation of approved fill from an alternate	KM M3 * KM	2,000	\$ 444.44 \$ 8,472.22	· ·	\$ - \$ 1,035,000.00	\$ 57,380.00 \$ 863,800.00		
31 0/0	source/processed material/road gravel	5 KIVI	20,000	0,4/2.22	- 3 44 ,000.00	, 1,000,000.00	- 003,000.00	7 142.17	2,0 4 3,400.00



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Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-C71	Rock blasting/preparation	M3	1,100	\$ 6,600.00	\$ 789,140.00		\$ 875,402.00		\$ 1,664,542.00
		: Tower Foundati	on Construction	437,608.50	\$ 36,133,118.44	\$ 10,651,911.89	\$ 50,372,379.39	\$ 1,296,744.36	\$ 101,940,228.60
S1-D	Tower Assembly and Erection (S1-Dx) Assembly and Erection of Suspension Tower Type "A1"								
S1-D1	Assembly and Erection of Suspension Tower Type "A1 + 0" as per dwg. 505573-4622-43DD-0042	EA	40	\$ 11,928.72	\$ 840,927.60	\$ -	\$ 1,633,339.20	\$ 61,856.67	\$ 2,474,266.80
S1-D2	Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per dwg. 505573-4622-43DD-0042	EA	29	\$ 8,847.52	\$ 622,647.69	\$ -	\$ 1,211,560.84	\$ 63,248.57	\$ 1,834,208.53
S1-D3	Assembly and Erection of Suspension Tower Type "A1 + 3" as per dwg. 505573-4622-43DD-0042	EA	46	\$ 14,212.19	\$ 999,255.70	\$ -	\$ 1,946,288.98	\$ 64,033.58	\$ 2,945,544.68
S1-D4	Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per dwg. 505573-4622-43DD-0042	EA	31	\$ 9,790.72	\$ 811,275.89	\$ -	\$ 1,216,913.68	\$ 65,425.47	\$ 2,028,189.57
S1-D5	Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD-0042	EA	138	\$ 43,746.22	\$ 3,070,045.98	\$ -	\$ 5,991,442.50	\$ 65,662.96	\$ 9,061,488.48
S1-D6	Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per dwg. 505573-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 9" as per	EA	79	\$ 25,413.46	\$ 1,781,611.95	\$ -	\$ 3,480,804.78	\$ 66,612.87	\$ 5,262,416.73
S1-D7	dwg. 505573-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as per	EA	116	\$ 37,742.69			\$ 5,169,729.08		\$ 7,813,562.80
\$1-D8	dwg. 505573-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 12" as per	EA	77	\$ 25,597.28 \$ 49.360.43			\$ 3,178,087.22		\$ 5,296,812.29
S1-D9 S1-D10	dwg. 505573-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as per	EA EA	147 0	\$ 49,360.43	\$ 4,084,790.43 \$ -	\$ -	\$ 6,127,186.38	\$ 69,469.23	\$ 10,211,976.81
S1-D11	dwg. 505573-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 15" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D12	dwg. 505573-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D13	dwg. 5055/3-4622-43DD-0042 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Assembly and Erection of Suspension Tower Type "A2" Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg.			<u> </u>					
S1-D14	Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as per	EA	0		\$ -	\$ -	\$ -	\$ -	\$ -
\$1-D15	Assembly and Erection of Suspension Tower Type A2 + 1.5 as per dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 3" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D16	dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as per	EA EA	30	\$ 448.03			\$ 61,314.68		\$ 93,277.43
S1-D17 S1-D18	dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 6" as per	EA EA	30 61	\$ 13,802.13 \$ 28,165.60			\$ 1,889,126.10 \$ 3,855,148.76		\$ 2,871,545.70 \$ 5,859,332.43
S1-D18	dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per	EA	76	\$ 36,034.20			\$ 4,932,748.84		\$ 7,491,164.96
S1-D20	dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 9" as per	EA	77	\$ 37,177.61			\$ 5,089,679.21		\$ 7,725,353.02
S1-D21	dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43DD-0044	EA	56	\$ 27,712.78			\$ 3,794,331.52		\$ 5,755,121.68
	uwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 12" as per dwg. 505573-4622-43DD-0044	EA	34	\$ 16,869.89	\$ 1,193,363.28	\$ -	\$ 2,309,788.98	\$ 103,033.89	\$ 3,503,152.26
S1-D23	Assembly and Erection of Suspension Tower Type "A2 + 13.5" as per dwg. 505573-4622-43DD-0044	EA	9	\$ 4,577.19	\$ 323,161.38	\$ -	\$ 626,763.60	\$ 105,547.22	\$ 949,924.98
S1-D24	Assembly and Erection of Suspension Tower Type "A2 + 15" as per dwg. 505573-4622-43DD-0044	EA	3	\$ 1,589.94	\$ 112,456.62	\$ -	\$ 217,607.58	\$ 110,021.40	\$ 330,064.20
S1-D25	Assembly and Erection of Suspension Tower Type "A2 + 16.5" as per dwg. 505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D26	Assembly and Erection of Suspension Tower Type "A2 + 18" as per dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D27	dwg. 505573-4622-43DD-0044 Assembly and Erection of Suspension Tower Type "A3"	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D28	Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DD-0050	EA	4	\$ 1,332.00	\$ 96,202.28	\$ -	\$ 182,007.04	\$ 69,552.33	\$ 278,209.32
S1-D29	Assembly and Frection of Suspension Tower Type "A3 + 1.5" as per dwg. 505573-4622-43DD-0050	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D30	Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-43DD-0050	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D31	Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per dwg. 505573-4622-43DD-0050	EA	2	\$ 704.94	\$ 50,637.22	\$ -	\$ 96,357.04	\$ 73,497.13	\$ 146,994.26
S1-D32	Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-43DD-0050	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D33	Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-43DD-0050 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	EA	4	\$ 1,440.08	\$ 103,242.24	\$ -	\$ 196,868.00	\$ 75,027.56	\$ 300,110.24
S1-D34	Assembly and Erection of Suspension Tower Type "A3 + 5 as per dwg. 505573-4622-43DD-0050 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as per	EA	0		\$ -	\$ -	\$ -	\$ -	\$ -
S1-D35	dwg. 505573-4622-43DD-0050 Assembly and Erection of Suspension Tower Type "A3 + 12" as per	EA	1	\$ 371.97			\$ 50,859.76		\$ 77,448.53
S1-D36 S1-D37	dwg. 505573-4622-43DD-0050 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as per	EA EA	0	\$ 749.40 \$ -	\$ 53,533.78 \$ -	\$ -	\$ 102,471.52 \$ -	\$ 78,002.65 \$ -	\$ 156,005.30
S1-D38	dwg. 505573-4622-43DD-0050 Assembly and Erection of Suspension Tower Type "A3 + 15" as per	EA	4	\$ 1,548.03			\$ 211,711.04	<u> </u>	\$ 321,984.76
S1-D39	dwg. 505573-4622-43DD-0050 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-43DD-0050	EA	3	\$ 1,172.35			\$ 160,341.00		\$ 243,784.20
	Assembly and Erection of Suspension Tower Type "A4"							<u> </u>	
S1-D40	Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D41	dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 3" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D42 S1-D43	dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as per	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -
S1-D43	dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 6" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D45	dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D46	dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D47	dwg. 5055/3-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D48	Assembly and Erection of Suspension Tower Type "A4 + 12" as per dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$1-1349	Assembly and Erection of Suspension Tower Type "A4 + 13.5" as per dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D50	Assembly and Erection of Suspension Tower Type "A4 + 15" as per dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D51	Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 18" as per	EA	0		\$ -	\$ -	\$ -	\$ -	\$ -
S1-D52	Assembly and Erection of Suspension Tower Type "A4 + 10" as per dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as per	EA	0		\$ -	\$ -	\$ -	\$ -	\$ -
S1-D53	dwg. 505573-4622-43DD-0056 Assembly and Erection of Suspension Tower Type "B1"	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D54	Assembly and Erection of Suspension Tower Type "B1 + 0" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D55	Assembly and Erection of Suspension Tower Type "B1 + 1.5" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D56	Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D57	Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D58	Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-43DD-0002	EA	0		\$ -	\$ -	\$ -	\$ -	\$ -
S1-D59	Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 9" as per	EA	5	\$ 3,115.48	· ,				· · · ·
S1-D60	Assembly and Erection of Suspension Tower Type B1+9 as per dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1+10.5" as per	EA	6	\$ 3,804.79		•	\$ 521,807.34		\$ 781,042.98
S1-D61	Assembly and Erection of Suspension Tower Type B1 + 121.3 as per dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 12" as per	EA	11	\$ 7,187.43		·	\$ 985,795.80	,	
S1-D62 S1-D63	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per	EA EA	9	\$ 6,000.17 \$ 7,567.54		•	\$ 822,996.81 \$ 1,037,538.04		\$ 1,230,934.50 \$ 1,553,401.08
21-002	dwg. 505573-4622-43DD-0002	LA	11	7,507.54	- 313,003.04	· -	÷ ±,057,556.04	y 1+1,210.28	1,555,401.08

CIMFP Exhibit P-01886



S1-D64 (S1-D65)										
	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	1	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-D65	Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
	Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per	EA	1	\$ 711.20 \$	48,410.66	\$ -	\$	97,517.64	\$ 145,928.30	\$ 145,928.30
	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 18" as per	EA	1	\$ 722.17 \$	· · · · · · · · · · · · · · · · · · ·		\$	99,026.12	\$ 148,151.38	
	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 19.5" as per			<u>'</u>	<u> </u>	-		99,020.12		3 146,131.36
S1-D67	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 21" as per	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
21-068	dwg. 505573-4622-43DD-0002	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
S1-D69	Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43DD-0002	EA	1	\$ 777.33 \$	52,902.91	\$ -	\$	106,563.39	\$ 159,466.30	\$ 159,466.30
S1-D70	Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-43DD-0002	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
\$1-1)/1	Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 505573-4622-43DD-0002	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
	Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43DD-0002	EA	1	\$ 828.21 \$	56,586.22	\$ -	\$	113,464.40	\$ 170,050.62	\$ 170,050.62
	Assembly and Erection of Medium Angle Tower Type "B2"									
	Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as per dwg. 505573-4622-43DD-0058	EA	28	\$ 18,519.20 \$	1,403,254.44	\$ -	\$	2,547,503.56	\$ 141,098.50	\$ 3,950,758.00
\$1-1374	Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058	EA	3	\$ 516.39 \$	38,128.29	\$ -	\$	71,094.54	\$ 36,407.61	\$ 109,222.83
	Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
S1-D76	Assembly and Erection of +0 m leg extension for Medium Angle Tower	EA	8	\$ 72.40 \$	5,345.52	\$ -	\$	9,967.20	\$ 1,914.09	\$ 15,312.72
	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +1.5 m leg extension for Medium Angle	EA	20	\$ 253.38 \$	-	<u> </u>	\$	34,885.20	\$ 2,679.72	
	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower			,	•	-		-		
S1-D78	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle	EA	16	,	•	-	\$	49,281.60	\$ 4,703.46	
31-079	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower	EA	24	\$ 634.18 \$	-		\$	87,312.72	\$ 5,589.12	
S1-D80	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	28	\$ 827.00 \$	61,062.96	\$ -	\$	113,858.64	\$ 6,247.20	\$ 174,921.60
S1-D81	Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	8	\$ 280.34 \$	20,699.60	\$ -	\$	38,596.80	\$ 7,412.05	\$ 59,296.40
S1-D82	Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	8	\$ 357.99 \$	27,512.00	\$ -	\$	49,360.16	\$ 9,609.02	\$ 76,872.16
	Assembly and Erection of Medium Angle Tower Type "C1" Assembly and Erection of Medium Angle Tower Type "C1" Basic Body									
S1-D83	as per dwg. 505573-4622-43DD-0004	EA	21	\$ 15,654.31 \$			\$	2,156,175.84	\$ 159,518.42	\$ 3,349,886.82
S1-D84	Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
S1-D85	Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	EA	0	\$ - \$	-	\$ -	\$		\$ -	\$ -
S1-D86	Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	40	\$ 560.31 \$	40,692.00	\$ -	\$	77,207.60	\$ 2,947.49	\$ 117,899.60
S1-D87	Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	4	\$ 78.44 \$	5,696.88	\$ -	\$	10,809.04	\$ 4,126.48	\$ 16,505.92
S1-D88	Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	16	\$ 409.82 \$	29,762.72	\$ -	\$	56,470.40	\$ 5,389.57	\$ 86,233.12
\$1-1)89	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	8	\$ 254.29 \$	18,467.68	\$ -	\$	35,039.76	\$ 6,688.43	\$ 53,507.44
	Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	8	\$ 314.90 \$	22,869.04	\$ -	\$	43,390.80	\$ 8,282.48	\$ 66,259.84
	Type 'C1' as per dwg. 3033/3-4022-4300-0004, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-430D-0004, per leg	EA	8	\$ 368.02 \$	26,727.12	\$ -	\$	50,710.88	\$ 9,679.75	\$ 77,438.00
S1-D92	Assembly and Erection of +9 m leg extension for Medium Angle Tower	EA	0	\$ - \$		\$ -	\$		\$ -	\$ -
	Type "C1" as per dwg. 505573-4622-43DD-0004, per leg Assembly and Erection of Medium Angle Tower Type "C2"								'	<u> </u>
S1-D93	Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg. 505573-4622-43DD-0012	EA	24	\$ 16,412.77 \$	1,281,988.56	\$ -	\$	2,258,602.80	\$ 147,524.64	\$ 3,540,591.36
51-094	Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012	EA	4	\$ 649.70 \$	48,087.88	\$ -	\$	89,437.16	\$ 34,381.26	\$ 137,525.04
S1-D95	Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012	EA	0	\$ - \$	-	\$ -	\$	-	\$ -	\$ -
S1-D96	Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA	40	\$ 656.33 \$	48,578.80	\$ -	\$	90,350.40	\$ 3,473.23	\$ 138,929.20
				φ 050.55 φ	40,570.00	~			1	\$ 136,929.20
S1-D97	Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA	12	\$ 275.66 \$			\$	37,947.12	\$ 4,862.52	-
S1-D97	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower	EA EA	12 16		20,403.12	\$ -	\$	37,947.12 70,492.16	\$ 4,862.52 \$ 6,774.62	\$ 58,350.24
S1-D97 (Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle			\$ 275.66 \$	20,403.12	\$ - \$ -		-		\$ 58,350.24 \$ 108,393.92
S1-D97 (Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower	EA		\$ 275.66 \$ \$ 512.08 \$	20,403.12 37,901.76 11,858.36	\$ - \$ -	\$	70,492.16	\$ 6,774.62	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32
\$1-D97 \$1-D98 \$1-D99 \$1-D100	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle	EA EA	16 4	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$	20,403.12 37,901.76 11,858.36 45,400.80	\$ - \$ - \$ -	\$	70,492.16 22,054.96	\$ 6,774.62 \$ 8,478.33	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA EA	16 4 12	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60	\$ - \$ - \$ - \$ -	\$ \$	70,492.16 22,054.96 84,439.44	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1"	EA EA EA	16 4 12 4	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$ \$ 239.15 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60	\$ - \$ - \$ - \$ -	\$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA EA EA	16 4 12 4	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$ \$ 239.15 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36	\$ - \$ - \$ - \$ - \$ -	\$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as	EA EA EA EA	16 4 12 4 8	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36	\$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower	EA EA EA EA EA	16 4 12 4 8	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$ \$ 239.15 \$ \$ 545.93 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82	\$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0.0 m leg extension for Dead-End Tower	EA EA EA EA EA EA	16 4 12 4 8 42 0	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 35,311.67 \$ \$ \$ \$ - \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ -
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower	EA EA EA EA EA EA EA EA	16 4 12 4 8 42 0	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$ \$ 239.15 \$ \$ 545.93 \$ \$ 35,311.67 \$ \$ - \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ - \$ -	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ - \$ 234,976.72
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 5 per leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 0 pead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower	EA	16 4 12 4 8 42 0 0 0 88	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 - - 153,875.92	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ - \$ 2,670.19	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ - \$ 234,976.72 \$ 74,765.20
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower	EA	16 4 12 4 8 42 0 0 88 20	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - - 81,100.80 25,804.60 28,982.24	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 - - 153,875.92 48,960.60	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.50573-4622-43DD-0043, per leg Assembly	EA E	16 4 12 4 8 42 0 0 0 88 20	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$ \$ 239.15 \$ \$ 545.93 \$ \$ 35,311.67 \$ \$ - \$ \$ 1,116.71 \$ \$ 355.32 \$ \$ 399.07 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - - 81,100.80 25,804.60 28,982.24 9,868.60	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 - 153,875.92 48,960.60 54,989.60	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA E	16 4 12 4 8 8 42 0 0 88 20 16 4	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 35,311.67 \$ \$ \$ \$ \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 - 153,875.92 48,960.60 54,989.60 18,724.28	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D103 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 4-4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Ass	EA E	16 4 12 4 8 42 0 0 88 20 16 4 28	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 - 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Ty	EA E	16 4 12 4 8 8 42 0 0 88 20 16 4 28	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as	EA E	16 4 12 4 8 8 42 0 0 88 20 16 4 28	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 - 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D103 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of A-4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly a	EA E	16 4 12 4 8 8 42 0 0 88 20 16 4 28 8 4	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 245.93 \$ \$ \$ 35,311.67 \$ \$ \$ \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52 35,004.60	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D103 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +40.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA E	16 4 12 4 8 8 42 0 0 88 20 16 4 28 8 4	\$ 275.66 \$ \$ 512.08 \$ \$ 160.21 \$ \$ 613.39 \$ \$ 239.15 \$ \$ 545.93 \$ \$ 35,311.67 \$ \$ - \$ \$ 1,116.71 \$ \$ 355.32 \$ \$ 399.07 \$ \$ 135.89 \$ \$ 1,125.23 \$ \$ 382.92 \$ \$ 254.04 \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52 35,004.60	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +2.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assemb	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4	\$ 275.66 \$ \$ \$ 1512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ 545.93 \$ \$ \$ 35,311.67 \$ \$ \$ - \$ \$ \$ 1,116.71 \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52 35,004.60	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ -
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2"	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ 20,066.20 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52 35,004.60 2,763,726.00	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 90,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12
\$1-D97 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Opead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 0 0 32	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 245.93 \$ \$ \$ 35,311.67 \$ \$ \$ \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 68,073.60 45,382.40	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52 35,004.60 2,763,726.00	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D100 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +0.5 m leg extension for Dead-End Tower	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 0 0 0 32 16	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ 20,066.20 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 - 68,073.60 45,382.40 101,975.72	\$ - \$ - \$ - \$ \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763,52 35,004.60 2,763,726.00 127,107.52 84,738.24	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ - \$ 6,099.41 \$ 8,132.54	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64 \$ 292,385.52
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Towe	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 0 0 0 32 16 28	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ \$ 245.93 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 68,073.60 45,382.40 101,975.72 51,093.24	\$ - \$ - \$ - \$ \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64 \$ 292,385.52
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D119 \$1-D119	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m beg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m beg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +0.5 m leg extension for Dead-End Tower Type	EA E	16 4 12 4 8 8 42 0 0 0 88 82 20 16 4 28 8 4 0 0 0 32 16 28 12	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 35,311.67 \$ \$ \$ \$ - \$ \$ \$ 1,116.71 \$ \$ 355.32 \$ \$ 399.07 \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ 20,066.20 \$ \$ \$ - \$ \$ \$ \$ 923.17 \$ \$ \$ 615.44 \$ \$ \$ 1,382.92 \$ \$ \$ \$ 692.89 \$ \$ \$ \$ - \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 - 68,073.60 45,382.40 101,975.72 51,093.24	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 236,768.84 \$ 9,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D118 \$1-D119 \$1-D110 \$1-D111	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" a	EA E	16 4 12 4 8 8 42 0 0 0 88 88 20 16 4 28 8 4 0 0 0 32 16 28 12 0 0	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 512.08 \$ \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ 545.9	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 	\$ - \$ - \$ - \$ \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 54,989.60 2,763,52 35,004.60 2,763,726.00 127,107.52 84,738.24 190,409.80 95,401.68	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91 \$ -	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92 \$ - \$ -
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D100 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D119 \$1-D110	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 24 0 0 0 32 16 28 12 0	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 35,311.67 \$ \$ \$ \$ - \$ \$ \$ 1,116.71 \$ \$ 355.32 \$ \$ 399.07 \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ 20,066.20 \$ \$ \$ - \$ \$ \$ \$ 923.17 \$ \$ \$ 615.44 \$ \$ \$ 1,382.92 \$ \$ \$ \$ 692.89 \$ \$ \$ \$ - \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 	\$ - \$ - \$ - \$ \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92 \$ - \$ -
\$1-D97 \$1-D98 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D103 \$1-D105 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D120 \$1-D121	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of OP ad-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2"	EA E	16 4 12 4 8 8 42 0 0 0 88 88 20 16 4 28 8 4 0 0 0 32 16 28 12 0 0	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 512.08 \$ \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ 545.9	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 - 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 - 68,073.60 45,382.40 101,975.72 51,093.24	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 54,989.60 2,763,52 35,004.60 2,763,726.00 127,107.52 84,738.24 190,409.80 95,401.68	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91 \$ -	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ - \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92 \$ - \$ - \$ 151,045.28
\$1-D97 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D119 \$1-D120 \$1-D121 \$1-D122	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of the m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.0 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Ere	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 0 0 0 32 16 28 12 0 0 8	\$ 275.66 \$ \$ \$ 12.08 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 245.93 \$ \$ \$ 35,311.67 \$ \$ \$ \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ 20,066.20 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 68,073.60 45,382.40 101,975.72 51,093.24 52,680.24 1,219,541.76	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91 \$ - \$ 18,880.66	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ - \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 195,181.12 \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92 \$ - \$ - \$ 151,045.28
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\$1-D97 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D100 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D110 \$1-D110 \$1-D111 \$1-D112	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 49 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0045, per leg As	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 24 0 0 0 32 16 28 12 0 0 8	\$ 275.66 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ 399.07 \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ 20,066.20 \$ \$ \$ - \$ \$ \$ \$ 923.17 \$ \$ \$ 615.44 \$ \$ \$ 1,382.92 \$ \$ \$ \$ 923.17 \$ \$ \$ 692.89 \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 68,073.60 45,382.40 101,975.72 51,093.24 52,680.24 1,219,541.76	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91 \$ - \$ 18,880.66	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92 \$ \$ 151,045.28 \$ 3,430,450.56 \$ \$ \$ 151,045.28
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\$1-D97 \$1-D99 \$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D118 \$1-D119 \$1-D110 \$1-D110 \$1-D1110 \$1-D112 \$1-D112 \$1-D112 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D120 \$1-D121 \$1-D121 \$1-D120 \$1-D121 \$1-D122 \$1-D122 \$1-D123 \$1-D124 \$1-D125 \$1-D126 \$1-D127	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 19 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 19 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assembly	EA E	16 4 12 4 8 8 42 0 0 0 88 20 16 4 28 8 4 24 0 0 0 32 16 28 12 0 0 8 16 0 0 20	\$ 275.66 \$ \$ \$ 512.08 \$ \$ \$ 160.21 \$ \$ \$ 613.39 \$ \$ \$ \$ 239.15 \$ \$ \$ 239.15 \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 545.93 \$ \$ \$ \$ 1,116.71 \$ \$ \$ 355.32 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 399.07 \$ \$ \$ 135.89 \$ \$ \$ 1,125.23 \$ \$ \$ 382.92 \$ \$ \$ 254.04 \$ \$ \$ \$ 20,066.20 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,403.12 37,901.76 11,858.36 45,400.80 17,700.60 40,407.36 2,690,297.82 81,100.80 25,804.60 28,982.24 9,868.60 81,718.84 27,808.88 18,449.12 1,573,859.04 68,073.60 45,382.40 101,975.72 51,093.24 52,680.24 1,219,541.76 43,310.20 34,648.20	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	70,492.16 22,054.96 84,439.44 32,920.76 75,152.32 4,864,245.12 153,875.92 48,960.60 54,989.60 18,724.28 155,050.00 52,763.52 35,004.60 2,763,726.00 127,107.52 84,738.24 190,409.80 95,401.68 98,365.04 2,210,908.80 82,175.00	\$ 6,774.62 \$ 8,478.33 \$ 10,820.02 \$ 12,655.34 \$ 14,444.96 \$ 179,870.07 \$ - \$ 2,670.19 \$ 3,738.26 \$ 5,248.24 \$ 7,148.22 \$ 8,456.03 \$ 10,071.55 \$ 13,363.43 \$ 180,732.71 \$ - \$ 6,099.41 \$ 8,132.54 \$ 10,442.34 \$ 12,207.91 \$ - \$ 18,880.66	\$ 58,350.24 \$ 108,393.92 \$ 33,913.32 \$ 129,840.24 \$ 50,621.36 \$ 115,559.68 \$ 7,554,542.94 \$ \$ 234,976.72 \$ 74,765.20 \$ 83,971.84 \$ 28,592.88 \$ 236,768.84 \$ 80,572.40 \$ 53,453.72 \$ 4,337,585.04 \$ 195,181.12 \$ 130,120.64 \$ 292,385.52 \$ 146,494.92 \$ \$ 151,045.28 \$ 3,430,450.56 \$ \$ 125,485.20 \$ 100,388.16

CIMFP Exhibit P-01886



Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-D129	Assembly and Erection of +4.5 m leg extension for Dead-End Tower	EA	12	\$ 763.08				\$ 13,380.42	\$ 160,565.04
C1 D130	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower	EA	4	\$ 312.58			-		
S1-D130	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower			,		•		, , , , ,	
S1-D131	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	EA	8	\$ 725.63	\$ 52,698.32	\$ - \$	99,987.76	\$ 19,085.76	\$ 152,686.08
S1-D132	Assembly and Erection of +9 m leg extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	EA	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
	Sub-total (S1	-Dx) : Tower Asse	mbly & Erection	573,395.76	\$ 42,244,601.38	\$ - \$	77,545,554.71	\$ 4,738,567.85	\$ 119,790,156.09
S1-E	Installation of Wires and OPGW (S1-Ex)								
S1-E1	Installation of Counterpoise wire, connection with tower grounding	KM	397	\$ 15,869.50	\$ 1,624,631.19	\$ - \$	2,226,030.61	\$ 9,699.40	\$ 3,850,661.80
S1-E2	Installation of ground rods at crossing obstacles in soil and rock	EA	200	\$ 200.00	\$ 21,512.00	\$ - \$	28,114.00	\$ 248.13	\$ 49,626.00
S1-E3	Tower Footing resistance measurement	EA	397	\$ 397.00	\$ 14,026.01	\$ - \$	54,718.51	\$ 173.16	\$ 68,744.52
S1-E4	S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	250		\$ 11,735,082.50				\$ 23,252,992.50
S2-E4	ACSR Conductor, complete for both poles S2 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	147	\$ 62,141.07		•		\$ 118,602.28	\$ 17,434,535.16
	ACSR Conductor, complete for both poles S3 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7							\$ 110,002.20	\$ 17,434,535.10
S3-E4	ACSR Conductor, complete for both poles	KM	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S4-E4	S4 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, complete for both poles	KM	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S5-E4	S5 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, complete for both poles	KM	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
\$1-E5	Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	KM	285	\$ 51,978.57	\$ 6,469,434.45	\$ - \$	7,257,909.75	\$ 48,166.12	\$ 13,727,344.20
	Grackle Conductor, complete for both electrodes Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR			· ·		· · · · · · · · · · · · · · · · · · ·	· ,		
S1-E6	Falcon Conductor, complete for both electrodes Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR	KM	99	\$ 26,131.39	\$ 3,225,039.84	\$ - \$	3,638,565.81	\$ 69,329.35	\$ 6,863,605.65
S1-E7	Grackle Conductor, complete for both electrodes	KM	18	\$ 2,836.57	\$ 291,224.52	\$ - \$	380,299.68	\$ 37,306.90	\$ 671,524.20
S1-E8	Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR Falcon Conductor, complete for both electrodes	KM	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-E9	Installation of ADSS on Wood Poles	KM	18	\$ 1,186.83			161,097.30	\$ 16,097.82	\$ 289,760.76
S1-E10	ADSS splicing and tests including loss analysis	EA	6	\$ 211.20			-7	\$ 7,359.82	
S1-E11 S1-E12	ADSS end to end test S1 - Installation of OPGW	LS KM	1 250		\$ 3,899.27 \$ 2,549,012.50		-,	\$ 9,451.91 \$ 20,085.03	\$ 9,451.91 \$ 5,021,257.50
S2-E12	S2 - Installation of OPGW	KM	165	•	\$ 2,039,852.10			\$ 24,082.45	
S3-E12	S3 - Installation of OPGW	KM	0	•	\$ -	\$ - \$		\$ -	\$ -
S4-E12 S5-E12	S4 - Installation of OPGW S5 - Installation of OPGW	KM KM	0	\$ - \$ -	\$ - \$ -	\$ - \$ \$ - \$		\$ - \$ -	\$ - \$ -
S1-E13	OPGW Continuity tests before and after stringing	LS	2		\$ 258,911.22			\$ 313,803.18	•
S1-E14	OPGW splicing and tests including loss analysis	EA	89	\$ 3,560.00	\$ 294,775.12	\$ - \$	444,370.77	\$ 8,305.01	\$ 739,145.89
S1-E15	OPGW end to end test	LS	2	•	\$ 31,194.14			\$ 37,807.62	
	•	: Installation of V	Vires and OPGW	283,537.95	\$ 37,493,036.28	\$ - \$	39,206,598.58	\$ 813,530.15	\$ 76,699,634.86
	Miscellaneous Tower Attachments and Acce		45	ć co.oo	Ć 5400.45		0.242.40	I ¢ 004.77	42 424 55
\$1-F1	Install 18" Aerial marker cones Sub-total (S1-Fx): Miscellaneous To	EA Wer Attachment	and Accessories	\$ 60.00 60.00	\$ 5,109.15 \$ 5,109.15		•	\$ 894.77 \$ 894.77	
S1-G	Framing and Setting of Wood Poles (S1-Gx)	Wei Attachment	and Accessories	00.00	3,103.13	y	0,312.40	\$ 054.77	7 13,421.55
	Framing and Setting of Voodu Poles (SI-GX) Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing	FA.	241	ć 12.259.20	¢ 664.469.22	ć 22.172.00 ć	1 460 540 88	¢ 9.046.91	¢ 2.156.191.21
S1-G1	505573-4633-4ZDD-0011 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as	EA	241	, ,,,,,,,	\$ 664,468.33		1,469,540.88	\$ 8,946.81	\$ 2,156,181.21
S1-G2	per Drawing 505573-4633-4ZDD-0012	EA	13	\$ 928.57	\$ 55,070.86	\$ 1,196.00 \$	108,147.26	\$ 12,647.24	\$ 164,414.12
S1-G3	Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with Guys as per Drawing 505573-4633-4ZDD-0020	EA	7	\$ 871.00	\$ 62,371.47	\$ 644.00 \$	109,804.31	\$ 24,688.54	\$ 172,819.78
S1-G4	Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as	EA	11	\$ 2,369.71	\$ 182,515.74	\$ 1,012.00 \$	311,521.43	\$ 45,004.47	\$ 495,049.17
S1-G5	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with	EA	9	\$ 1,362.86	\$ 96,083.91	\$ 828.00 \$	174,913.11	\$ 30,202.78	
	Guys as per Drawing 505573-4633-4ZDD-0013 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in		, , , , , , , , , , , , , , , , , , ,			<u> </u>	•		
S1-G6	Labrador as per Drawing 505573-4633-4ZDD-0061	EA	1	\$ 256.43	\$ 20,680.31	\$ 92.00 \$	34,046.21	\$ 54,818.52	\$ 54,818.52
	Cb + - + - /C1 C\ . F.								
		raming and Settin	g of Wood Poles	19,146.86	\$ 1,081,190.62	\$ 25,944.00 \$	2,207,973.20	\$ 176,308.36	\$ 3,315,107.82
\$1-I	Optional Pricing (S1-Ix)					\$ 25,944.00 \$	2,207,973.20	\$ 176,308.36	\$ 3,315,107.82
S1-I S1-I1	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications	raming and Settin	g of Wood Poles		\$ 1,081,190.62 \$ -	\$ 25,944.00 \$		\$ 176,308.36	\$ 3,315,107.82 \$ -
	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as			\$ -			-	[· · · · · · · · · · · · · · · · · · ·	\$ 3,315,107.82 \$ - \$ -
S1-I1 S1-I2 S1-I3	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging	LS EA Ha	2 2 2,207	\$ - \$ - \$	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$	-	[· · · · · · · · · · · · · · · · · · ·	\$ 3,315,107.82 \$ - \$ - \$ -
\$1-I1 \$1-I2 \$1-I3 \$1-I4	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging Installation of Access Road - Alternative	LS EA Ha KM	2 2 2,207 79	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$	-	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -
S1-I1 S1-I2 S1-I3	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging Installation of Access Road - Alternative Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the Substation Gantry	LS EA Ha	2 2 2,207	\$ - \$ - \$	\$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$	-	[· · · · · · · · · · · · · · · · · · ·	\$ - \$ - \$ -
\$1-I1 \$1-I2 \$1-I3 \$1-I4	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging Installation of Access Road - Alternative Slack Span Connections - Installation of all Conductor and OPGW from	LS EA Ha KM	2 2 2,207 79	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 57,796.66	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- - - - 66,015.34	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 123,812.00
\$1-12 \$1-12 \$1-13 \$1-14 \$1-15 \$1-16	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging Installation of Access Road - Alternative Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the Substation Gantry Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal Wood Pole to the Electrode Compound Gantry	LS EA Ha KM LS	2 2 2,207 79 2	\$ - \$ - \$ - \$ - \$ 472.00 \$ 152.00	\$ - \$ - \$ - \$ - \$ 57,796.66 \$ 14,482.39	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- - - - 66,015.34 20,795.43	\$ - \$ - \$ - \$ - \$ 61,906.00 \$ 35,277.82	\$ - \$ - \$ - \$ 123,812.00 \$ 35,277.82
\$1-I1 \$1-I2 \$1-I3 \$1-I4 \$1-I5	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging Installation of Access Road - Alternative Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the Substation Gantry Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal Wood Pole to the Electrode Compound	LS EA Ha KM LS	2 2 2,207 79 2	\$ - \$ - \$ - \$ 472.00 \$ 152.00	\$ - \$ - \$ - \$ - \$ 57,796.66	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- - - - 66,015.34 20,795.43	\$ - \$ - \$ - \$ - \$ 61,906.00	\$ - \$ - \$ - \$ - \$ 123,812.00
\$1-12 \$1-12 \$1-13 \$1-14 \$1-15 \$1-16 \$1-17 \$1-18 \$1-19	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile design Optional cost for mulching given area instead of salvaging Installation of Access Road - Alternative Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the Substation Gantry Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal Wood Pole to the Electrode Compound Gantry Supply and Installation of Culvert - 1000 mm Supply and Installation of Culvert - 1200 mm Supply and Installation of Culvert - 1600 mm	LS EA Ha KM LS LS LM LM LM	2 2 2,207 79 2 1 44 44 44	\$ - \$ - \$ - \$ 472.00 \$ 152.00 \$ - \$ -	\$ - \$ - \$ - \$ 57,796.66 \$ 14,482.39 \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- - - - 66,015.34 20,795.43	\$ - \$ - \$ - \$ 61,906.00 \$ 35,277.82 \$ - \$ -	\$ - \$ - \$ - \$ 123,812.00 \$ 35,277.82 \$ - \$ -
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CIMFP Exhibit P-01886



	Su	otal Unit Price(\$)	Tota	Labour(\$)	/laterial (\$)	N	quipment(\$)	Ec	Unit Manhours(hrs)	Estimated Quantity	Unit of Measure	. Description	Item No.
7.0	\$	7.02	\$	4.19	\$ -	\$	2.83	\$	\$ 0.03	1	кG	Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases	S1-I37
6.6	\$	6.68	\$	4.04	\$ -	\$	2.64	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type A4, per kg, to be used for weight increases or decreases	S1-I38
6.6	\$	6.68	\$	4.04	\$ -	\$	2.64	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type B1, per kg, to be used for weight increases or decreases	S1-I39
7.0	\$	7.09	\$	4.22	\$ -	\$	2.87	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type B2, per kg, to be used for weight increases or decreases	S1-I40
7.1	\$	7.11	\$	4.25	\$ -	\$	2.86	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases	S1-I41
7.2	\$	7.24	\$	4.31	\$ -	\$	2.93	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decreases	S1-I42
7.1	\$	7.11	\$	4.25	\$ -	\$	2.86	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decreases	S1-I43
7.2	\$	7.25	\$	4.31	\$ -	\$	2.94	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type D2, per kg, to be used for weight increases or decreases	S1-I44
7.2	\$	7.20	\$	4.29	\$ -	\$	2.91	\$	\$ 0.03	1	KG	Assembly and Erection of Tower Type E1, per kg, to be used for weight increases or decreases	S1-I45
2,865,292.9	\$	2,865,292.91	\$	1,060,158.37	\$ 85,958.79	\$	1,719,175.75	\$	\$ 1,536.95	1	LS	Survey Cost	S1-I46
3,024,505.3	\$	97,306.40	\$	86,882.94	\$ -	\$	72,329.46	\$	624.53	Optional Pricing	Sub-total (S1-Ix):		
460,698,539.5												TOTAL VALUE THIS PROPOSAL (Tax Excluded):	
	\$ \$				\$ 85,958.79	_		\$		1 Optional Pricing			S1-I46

					,
FOR THE LOWER CHURCHILL PROJECT - MUSKRAT FALLS					
This Appendix forms part of the Proposal submitted by:					
Name of Bidder:					
Request For Proposal no: 505573-CT0327					
Signature:					
Date of Proposal:		•	•	•	

Notes:





Valard Construction LP

VH00		NALCOR 350 kV HVdc L	ne Construction Front	1 (Labrador)		
	Project Estimate - Valard Construction Ltd.			(
	Man-Hour Estimate; Primary Structures and equipment External Data Input Link from Other Page Link for Other Page	Indirect Cost Percentage: Hours Per Day: Project Dates:	0.28	Travel Time Segment 1 Segment 2	1 3	
		•		Segment 3	1.5	
Payment	NALCOR 350 kV HVdc Line Construction Front 1 (Labrado	Units	Hours per	Crew Cost		Total Unit Cost Manhours and
Item	Description	Total	Crew No. unit	Hourly Rate Unit Cost	Subtotal Units Unit Cost	Materials Materials Total Materials
	2 3	4 5 6	7 8.00	9 10	0 11 12 1 ;	3 14 15 16
V-H00 V-H01 V::A01	S1-A General Works (S1-Ax) Mobilization and Demobilization S1-A1 Initial Mobilization S1-A1 Initial Mobilization	Total structure count:	1 LS		\$ -	\$ - \$ \$
		each 1 each 1			\$ - 1 \$ - \$ - 1 \$ -	
		each 1		- \$ \$	\$ - 1 \$ - \$ - 1 \$ -	_
		each 1 each 1		\$ - \$ - \$ - \$ -	\$ - 1 \$ - \$ - 1 \$ -	-
		each 1		- \$ - \$ - \$ -	\$ - 1 \$ - \$ - 1 \$ -	†
		0		\$	\$ -	
V::A02	S1-A2 Final Demobilization S1-A2 Final Demobilization	Total structure count:	1 LS		\$ -	- \$ - \$
		each 1 each 1		\$ - \$ - \$ - \$	\$ - 1 \$ - \$ - 1 \$ -	
		each 1		- \$ -	\$ - 1 \$ -]
		each 1 each 1		\$ - \$ - \$ - \$ -	\$ - 1 \$ - \$ - 1 \$ -	
		each 1		- \$ - \$ - \$ -	\$ - 1 \$ - \$ - 1 \$ -]
				\$ -	\$ -	
V::A03	S1-A3 Accommodation Camp Installation S1-A3 Accommodation Camp Installation	Total structure count:	1 LS		\$ 5,330,837.35	\$ 49,879,838.80 \$ 55,210,676.15 \$ 49,879,838.80
	5 Cam Permitting and Supervise Installation Supervise		500.00	467.40 6 92.500.02	02 506 02 4 4 6 92 506 02	7
	0" 5 "	each 1 ee Preparation each 1	29 500.00 1 28 1500.00	\$ 167.19 \$ 83,596.03 \$ 965.54 \$ 1,448,305.52	83,596.03 1 83,596.03 1 1,448,305.52 1 1,448,305.52	†
	Install Radio System OPGWS		42 5000.00	297.67 \$ 1,488,370.39	\$ 1,488,370.39 1 \$ 1,488,370.39	
	Set up Camp camp se	each 1	45 1100.00	\$ 2,100.51 \$ 2,310,565.41 \$ - \$ -		-
		each 1		- \$ -	- 1 1 \$ -]
	Camp Move	each 1	46 0.00	\$ 241.83 \$ - \$ 5,330,837.35	\$ - 1 \$ - 6 \$ 5,330,837.35 \$ 5,330,837.35	
				Ç 0,000,001.100	ψ 0,000,001.000 ψ 0,000,001.000	-
V::A04	S1-A4 Boarding and Lodging for Company/Engineer with 3 meals S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per	per day Total structure count:	24000 person-day		\$ -	\$ 250.01 \$ 250.01 \$ 6,000,309.00
		each 24000		- \$ -	\$ - 24000 \$ -	
		each 24000 each 24000		- \$ - - \$ -	\$ - 24000 \$ - \$ - 24000 \$ -	-
		each 24000		-	\$ - 24000 \$ -	1
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		each 24000		\$ - \$ -	\$ - 24000 \$ - \$ - \$	
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
Payment		L	Jnits		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials ⁻	Total Materials
V::A05	S1-A5 Meals for Company/Engineer visitors S1-A5 Meals for Company/Engineer visitors	Total structu	re count:	2000	meal			\$ -			\$ 41.68	\$ 41.68	\$ 83,354
		each	2000			\$ -	·	\$ -	2000	-			
		each	2000			\$ -		\$ -	2000				
		each each	2000 2000			\$ - \$ -	·	\$ - \$ -	2000				
		each	2000			\$ -		\$ -	2000	-			
		each	2000)		\$ -	<u> </u>	\$ -		-			
V::A06	S1-A6 Parent Guarantee Article 7.4	Total structu	ire count:	1	LS			\$ - \$ -			\$ -	\$ -	\$
	S1-A6 Parent Guarantee Article 7.4												
		each	1			-	-	\$ -	1 :	-			
		each	1			\$ -	\$ -	\$ -	1 :	-			
		each	1			\$ -	\$ -	\$ -	1 :				
		each	1			\$ - <u></u>	\$ -	\$ -	1 3				
		each	1			ų ,	\$ - \$ -		1 :	-			
V::A07	S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6	Total structu	re count:	1	LS			\$ -			-	\$ -	\$
		each	1			\$ -	-	\$ -	1 :	-			
		each	1			-		\$ -	1 :	-			
		each	1			-		\$ -	1 :				
		each	1			-		\$ -	1 3				
		each	-1			\$ -		\$ - \$ -	1 :	5 - 5 -			
V::A08	S1-A8 Performance Bonding Article 7.1 S1-A8 Performance Bonding Article 7.1	Total structu	ire count:	1	LS	O'		\$ -		- :	5 -	\$ -	\$
		each	1			-		\$ -	1 3	-			
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		Caon				Ψ ·	\$ -	\$ -	1 :	-			
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V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each	1	1	LS	\$ -	\$ - \$ - \$ - \$ -	\$ - \$ -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 - 5 - 5 -	\$ -	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each each Total structu	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	LS	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	1 1 1	5 - 5 - 5 -	\$ <u>-</u>	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each Total structu each each each	1 1	1	LS	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -		5 - 5 - 5 -	5 -	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each Total structu each each each each	ire count:	1	LS	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -		5 - 5 - 5 - 5 -	\$ -	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each Total structu each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	LS	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		5 - 5 - 5 - 5 -	\$ -	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each Total structu each each each each	ire count:	1	LS	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	\$ -	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each each each each each each eac	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	LS	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			5 -	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	LS	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			\$ <u>-</u>	\$ -	\$
V::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	each each each each each each each eac	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	LS	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			5	\$ -	\$



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Payment		Units	_	Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V-H04 V::B01	S1-B Right-of-Way Clearing - Direct Costs (S1-Bx) S1-B1 ROW Clearing S1-B1 ROW Clearing	Total structure count:	2207	_ Ha		\$			-	\$ 19,550.00	\$ 19,550.00	\$ 43,146,850.00
		each 2207			\$ -	\$ - \$			=			
		each 2207			\$ -	\$ - \$		2207 \$	=			
		each 2207			\$ -	\$ - \$			-	1		
		each 2207 each 2207	7		\$ - \$ -	\$ - \$		2207 \$ 2207 \$	-	-		
		each 2207 each 2207			\$ -	\$ - \$ \$ - \$			-	-		
		each 2207			\$ -	\$ - \$				-		
		each 2207	7		\$ -	\$ - \$			-	1		
		each 220			\$ -	\$ - \$	-			1		
		220			•	\$ - \$			=			
V::B02	S1-B2 Removal of selected danger trees S1-B2 Removal of selected danger trees	Total structure count:	1000	EA		\$	-		-	\$ 210.00	\$ 210.00	\$ 210,000.00
		each 1000			\$ -	\$ - \$	-	1000 \$	-]		
		each 1000			\$ -	\$ - \$	-	1000 \$	-	1		
		each 1000)		\$ -	\$ - \$	-	1000 \$	-			
		each 1000			\$ -	\$ - \$	-		=			
		each 1000			\$ -	\$ - \$	-		-			
		each 1000			\$ -	\$ - \$	-		-			
		each 1000			\$ -	- \$			-			
		each 1000 each 1000		_	\$ -	\$ <u>-</u> \$		1000 \$	-			
V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	Total structure count:	1358	LM	\$ -	\$ - <u>\$</u> \$	-	\$ \$ 1358 \$	-	426.01	\$ 426.01	\$ 578,516.15
		each 1358			\$ -	\$ - \$			<u> </u>			
		each 1358			\$ -	\$ - \$	-	1358 \$	_	1		
		each 1358			\$ -	\$ - \$	=		-			
		each 1358			\$ -	\$ - \$	=	1358 \$	=			
		each 1358			\$ -	\$ - \$			-			
		each 1358			\$ -	\$ - \$	-	1358 \$	-			
		each 1358			\$ -	\$ - \$	-	1358 \$ 1358 \$	-			
		each 1358			-	\$ - \$ \$ - \$	-	\$	-			
V::B04	S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	Total structure count:	141	EA		\$	-	\$	-	\$ 32,700.00	\$ 32,700.00	\$ 4,610,700.00
		each 14			\$ -	\$ - \$	-	141 \$	-]		
		each 14	1		\$ -	\$ - \$	-	141 \$	-]		
		each 14			\$ -	\$ - \$			-			
		each 14			\$ -	\$ - \$		141 \$	=	_		
		each 14			\$ -	\$ - \$		141 \$	-			
		each 14			\$ -	\$ - \$	-	141 \$	-	-		
		each 14			\$ -	\$ - \$ \$ - \$	-	141 \$ 141 \$	-	-		
		each 14			\$ -	\$ - \$	-		-	1		
		each 14			\$ -	\$ - \$			<u> </u>	1		
		1 00011 14			Ψ	\$ - \$			-	J		



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost					То	tal Unit Cost		
Payment		Units	[Hours per			0.1	ļ., .,			anhours and	-	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B05	S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m	Total structure count:	2	EA			-		\$ - \$	43,600.00 \$	43,600.00	\$	87,200.00
		each 2			-	\$ -	\$ -	2	\$ -				
		each 2		(\$ -	\$ -	2	\$ -				
		each 2		Ç	-	\$ -	\$ -	2	\$ -				
		each 2		Ç	-	\$ -	\$ -	2	\$ -				
		each 2			-	\$ -	\$ -	2	\$ -				
		each 2					\$ -						
		each 2					\$ -	2	\$ -				
		each 2			-	\$ -	\$ -	2					
		each 2		Ş		\$ -							
						\$ -	\$ -		\$				
V::B06	S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m	Total structure count:	15	EA			-		\$ - \$	54,500.00 \$	54,500.00	\$	817,500.00
	- Stage of the metallication of Bridge of the												
		each 15				\$ -	\$ -	15	\$ -				
		each 15					\$ -	15	\$ -				
		each 15					\$ -	15	\$ -				
		each 15					\$ -	15	\$ -				
		each 15					\$ -		\$ -				
		each 15		9			\$ -		\$ -				
		each 15		9			\$ -	15	\$ -				
		each 15					\$ -	15	\$ -				
		each 15					\$ -		\$ -				
		each 15		9			\$ -	15	\$ -				
		each 15			-	\$ -	\$ -	15	\$ -				
							\$ -		\$ -				
V::B07	S1-B7 Supply and Installation of Bridge - 6 m S1-B7 Supply and Installation of Bridge - 6 m	Total structure count:	5	EA			\$ -		\$ - \$	65,400.00 \$	65,400.00	\$	327,000.00
	- S1-b7 Supply and installation of bridge - 0 in												
		each 5				\$ -	\$ -	5	¢				
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		each 5		9			\$ -		\$ -				
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		each 5					\$ -		\$ -				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials To	otal Materials
V::B08	S1-B8 Supply and Installation of Bridge - 7 m S1-B8 Supply and Installation of Bridge - 7 m	Total structure count:	1	EA			\$ -	\$	-	\$ 76,300	0.00 \$ 76,300.00 \$	76,300.00
		each	1		\$ -	\$ -	\$ -		=			
		each	1		\$ -	\$ -	\$ -					
		each	1		\$ -	\$ -	\$ -					
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		Cuon	1				\$ -					
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		each	1			\$ -						
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		0.0011	1		\$ -	\$ -						
		00011	1			\$ -						
		each	1		-	\$ -	\$ -					
						\$ -	-	\$	-			
V::B09	S1-B9 Supply and Installation of Bridge - 8 m	Total structure count:	4	EA			\$ -	\$	-	\$ 87,200	0 <mark>.00 </mark>	348,800.00
	S1-B9 Supply and Installation of Bridge - 8 m			_				•		, , ,	, , , , , , , , , , , , , , , , , , , ,	,
	•											
		each	4		\$ -	\$ -	\$ -		-			
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		each	4		\$	\$ -	\$ -		=			
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		each	4				\$		-			
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			4			\$ -			-			
			4			\$						
		each	4			\$ -						
						\$ -	\$ -	\$	-			
V::B10	S1-B10 Supply and Installation of Bridge - 10 m S1-B10 Supply and Installation of Bridge - 10 m	Total structure count:	3	EA			\$ -	\$	- -	\$ 109,000	<mark>0.00</mark> \$ 109,000.00 \$	327,000.00
										_		
		each				•	\$ -		=			
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		each				\$ -	•			4		
		each				\$ -				4		
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		each								4		
		each	3			\$ -				4		
					l	\$ -	\$ -	<u>\$</u>	- _	_		



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials To	otal Materials
V::B11	S1-B11 Supply and Installation of Bridge - 13 m S1-B11 Supply and Installation of Bridge - 13 m	Total structure count:	0	EA		ı	\$ -	\$	-	\$ 141,700.00	\$ 141,700.00 \$	-
		each	0		\$ -	-	\$ -		-			
		each	0		\$ -	\$ -	\$ -		-			
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		each	0		\$ -	\$ -	\$ -					
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			0		\$ -	\$ -			-			
		each	0		-	\$ -	\$ -	0 \$	-			
						\$ -	\$ -	\$	=			
V::B12	S1-B12 Supply and Installation of Bridge - 14 m	Total structure count:	1	EA			-	\$	-	\$ 152,600.00	\$ 152,600.00 \$	152,600.00
	S1-B12 Supply and Installation of Bridge - 14 m											
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		04011	1		\$ -	\$ -			-			
		odon	1		\$ -		\$ -		-			
		545	1		\$ -		\$ -		-			
		040	1		\$ -	,	\$ -		-			
			1		\$ -		\$ -	1 \$	-			
			1	A	\$ -		\$ -		-			
		Cuon	1		\$ -	-				4		
		Cacii	1		\$ -		<u>-</u>		-			
		each	1		\$ -	\$ -			-			
			1		\$ -	\$ -	•			4		
		each	1		5 -	\$ -						
						\$ -	\$ <u>-</u>	\$	-			
/::B13	S1-B13 Supply and Installation of Bridge - 15 m S1-B13 Supply and Installation of Bridge - 15 m	Total structure count:	0	EA			\$ -	\$	-	\$ 163,500.00	\$ 163,500.00 \$	-
	•	//										
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		each	0		\$ -	\$ -		0 \$	=	_		
		each	0		\$ -	\$ -	\$ -		-			
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		each	0		\$ -	\$ -	\$ -		-			
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		each	0		\$ -	\$ -	\$ -		=			
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		each	0		\$ -	\$ -		0 \$	-	_		
						\$ -	\$ -	\$	-			



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost		
Payment	` '	Units		Hours per							Manhours and		
Item	Description	Tota	al Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B14	S1-B14 Supply and Installation of Bridge - 16 m S1-B14 Supply and Installation of Bridge - 16 m	Total structure count	:: <u> </u>	_ EA		ı	\$ -		\$ -	\$ 174,400.00	\$ 174,400.00	\$	174,400.00
		each	1		\$ -	\$ -	\$ -	1	\$ -				
		each	1		\$ -	\$ -	\$ -	1	\$ -				
		each	1		\$ -	·	\$ -	1	\$ -				
		each	1		\$ -	*	\$ -	1					
		each each	1		\$ - \$ -	<u> </u>	\$ - \$ -	1					
		each	1		T		\$ -	1					
		each	1		·	\$ -		1					
		each	1		\$ -		\$ -	1					
						\$	\$ -		\$ -				
V::B15	S1-B15 Supply and Installation of Bridge - 25 m	Total structure count	:: 0	EA			\$ -		\$ -	\$ 272,500.00	\$ 272,500.00	\$	-
	S1-B15 Supply and Installation of Bridge - 25 m												
		each	0		\$ -	\$ -	\$ -	0	\$ -				
		each	0		\$ -		\$ -	0	\$ -				
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		each	0			\$ -		0	\$ -				
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		each	0		φ -		\$ -	0					
V::B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	Total structure count		EA			\$ -		\$ - \$ -	\$ 381,500.00	\$ 381,500.00	\$	-
		each each	0		-		\$ - \$ -	0	\$ - \$ -				
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		each	0		\$ -	\$ -	\$ -	0	\$ -				
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		eacn	0		-		\$ - \$ -		\$ - \$ -				
V::B17	S1-B17 Supply and Installation of Bridge - 50 m S1-B17 Supply and Installation of Bridge - 50 m	Total structure count	1	EA		ı	-		-	\$ 545,000.00	\$ 545,000.00	\$	545,000.00
		each	1		\$ -	\$ -	\$ -	1	\$ -				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)		1	I	Crew Cost	Ī				1	Total Unit Cost		
Payment	INVECTOR 220 KA LLANG FILIS COLISTINGTION LIQUIT I (FABISMOI)	Units		Hours per	Crew Cost						Manhours and		
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B18	S1-B18 Supply and Installation of Bridge - 60 m S1-B18 Supply and Installation of Bridge - 60 m	Total structure count:	1	EA			\$ -		\$ - \$	654,000.00	\$ 654,000.00	\$	654,000.00
		I sash I	1	1	*	\$ -	<u></u>	1 41	¢.				
		each each	1		Ψ	<u> </u>	\$ \$	1	\$ - \$ -				
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		Guon			Ψ	\$ -			\$ -				
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V::B19	S1-B19 Supply and Installation of Bridge - 65 m	Total structure count:	1	EA			\$ -		\$ - \$	708,500.00	\$ 708,500.00	\$	708,500.00
	S1-B19 Supply and Installation of Bridge - 65 m												
		each	1		\$ -	\$ -	\$ -	1	\$ -				
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		each each	1				\$ - \$ -	1	\$ - \$ -				
		each	1				\$ -	1					
		Guerr				T	\$ -		\$ -				
V::B20	S1-B20 Installation of Corduroy Road S1-B20 Installation of Corduroy Road	Total structure count:	4915	LM			\$ -		\$ - \$	139.45	\$ 139.45	\$	685,391.84
		each 4915	5		\$ -	\$ -	\$ -	4915	\$ -				
		each 4915					\$ -	4915	\$ -				
		each 4915					\$ -	4915					
		each 4915	5		\$ -	\$ -	\$ -	4915	\$ -				
		each 4915			Ť	*	\$ -	4915					
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		each 4915					\$ - \$ -	4915 4915	\$ - ¢				
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		4310				\$ -	\$ -	4010	\$ -				
						-	,	•	,				
V::B21	S1-B21 Installation of Access Road - Access Class 3 S1-B21 Installation of Access Road - Access Class 3	Total structure count:	415	KM		ı	\$ -		\$ - \$	80,700.00	\$ 80,700.00	\$ 33	3,490,500.00
		each 415	5		\$ -	\$ -	\$ -	415	\$ -				
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		each 415	5		<u>'</u>	,	\$ -	415	\$ -				
		each 415			T		\$ -	415					
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		each 415			•	*	\$ - \$ -	415 415					
		each 415			•	*	\$ -	415					
		710				·	\$ -		\$ -				



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
Payment	10 (Editado)	U	Jnits		Hours per	Olew obst						Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-B22 Installation of Access Road - Access Trail S1-B22 Installation of Access Road - Access Trail	Total structu	re count:	20	_ KM			\$ -		\$ -	\$ 80,700.00	\$ 80,700.00	\$ 1,614,000.00
		each	20			\$ -	\$ -	\$ -	20	\$ -			
		each	20			\$ -	T	\$ -	20	\$ -			
		each each	20 20			\$ - \$ -	·	\$ - \$ -	20				
		each	20			\$ -		\$ -	20	\$ -			
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		each	20			\$ -		\$ -	20	\$ -			
		each	20			\$ -	\$ -		20				
V::B23	S1-B23 Installation of Access Road - Bypass Trail	Total structu	ire count.	6	КМ		\$	\$ -		\$ <u>-</u> \$ -	\$ 80,700.00	\$ 80,700.00	\$ 484,200.00
VD23	S1-B23 Installation of Access Road - Bypass Trail	Total Structu	ire courit.					_		Ψ -	φ 00,700.00	ψ 00,700.00	404,200.00
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		each each	6			\$ - \$ -		\$ - \$ -	6	\$ - \$ -			
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		each	6			\$ -		\$ -	6	\$ -			
		each	6			\$ -	*	\$ -	6				
		each	6			\$ -		\$ -	6	\$ -			
		each each	<u>6</u>			\$ -		\$ - \$ -	6				
		Cacii	U			Ψ -		\$ -		\$ -			
	S1-B24 Installation of Access Road - Ice Bridge S1-B24 Installation of Access Road - Ice Bridge	Total structu	re count:	35	LM			\$ -		\$ -	\$ 7,200.00	\$ 7,200.00	\$ 252,000.00
				1									
		each	35			\$ -		\$ -	35	\$ -			
		each	35			\$ - \$ -	\$ -	\$ -	35	\$ -			
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		each each each	35 35 35			\$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	35 35 35	\$ - \$ - \$ -			
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		each each each each each each each each	35 35 35 35 35 35 35 35			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
		each each each each each each	35 35 35 35 35 35			\$ \$ \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
V-H06 V::B25		each each each each each each each each	35 35 35 35 35 35 35 35 35		На	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-B S1-B25 ROW Clearing S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35	18		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 35	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 35	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 35 35	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 35 18	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 35 35 35	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 38 38 18	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 35 35	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 18 18 18	\$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 18 18 18 18 18 18	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 18 18 18 18 18	\$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 38 18 18 18 18 18 18	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 35 38 18 18 18 18 18	\$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00
V-H06 V::B25	S1-B25 ROW Clearing	each each each each each each each each	35 35 35 35 35 35 35 35 35 18 18 18 18 18 18	18		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	35 35 35 35 35 35 35 35 35 35 18 18 18 18 18 18	\$ -	\$ 19,550.00	\$ 19,550.00	\$ 351,900.00



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost		
Payment	`	Ur	nits		Hours per							Manhours and		
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B26	S1-B26 Removal of selected danger trees S1-B26 Removal of selected danger trees	Total structur	e count:	42	EA			\$ -		\$ -	\$ 210.00	\$ 210.00	\$	8,820.00
		each	42			-	\$ -	\$ -		\$ -				
		each	42			\$ -	\$ -	\$ -		\$ -				
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		each	42			\$ -		\$ -		\$ -				
		each each	42 42			\$ \$	\$ - \$			\$ - \$ -				
		eacii	42			-	\$ -			\$ -				
V::B27	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	Total structur	e count:	11	LM			\$		\$ -	\$ 426.01	\$ 426.01	\$	4,686.07
		each	11			\$ -	\$ -	\$ -	11	\$ -				
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		each	11			\$ -	\$ -			\$ -				
		each	11			\$ -		\$ -		\$ -				
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		each	11 11			- c		\$ -		\$ -				
		each	11			5 -	Ψ	\$ - \$ -		\$ - \$ -				
		1 1	L				Ψ	Ψ		Ψ				
V::B28	S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m	Total structur	e count:	1	EA			\$ -		\$ -	\$ 32,700.00	\$ 32,700.00	\$	32,700.00
		each each	1			\$ - \$ -		\$ - \$ -		\$ - \$				
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	401.2841091						\$ -	\$		\$ -				



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B29	S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m	Total structure count:	0	EA			\$ -	\$	-	\$ 43,600.00	\$ 43,600.00	-
					T							
		each	0		\$ -	\$ -	\$ -	0 \$	-			
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		each	0		-	\$ -		0 \$				
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V::B30	S1-B30 Supply and Installation of Bridge - 5 m S1-B30 Supply and Installation of Bridge - 5 m	Total structure count:	1	EA			\$ -	\$	-	\$ 54,500.00	\$ 54,500.00	\$ 54,500.00
	Or Boo Supply and motalication of Bridge Offi											
		each	1		\$	-	\$ -	1 \$	-			
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		each	1		\$ -	\$ -	\$ -	1 \$	-			
		each	1		\$ -	\$ -	\$ -	1 \$				
		each	1		-	-	\$ -	1 \$				
		each	1	\mathbf{A}	\$ -	\$	\$ -	1 \$	-			
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V::B31	S1-B31 Supply and Installation of Bridge - 6 m S1-B31 Supply and Installation of Bridge - 6 m	Total structure count:	1	EA			\$ -	\$	•	\$ 65,400.00	\$ 65,400.00	\$ 65,400.00
		each	1		\$ -	•	\$ -	1 \$				
		each	1		-	\$ -	\$	1 \$				
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		each	1		\$ -	\$ -	\$ -	1 \$				
		each	1		\$ -	\$ -	\$ -	1 \$				
		each	1		\$ -	\$ -	\$ -	1 \$	-			
		each	1		\$ -	\$ -	\$ -	1 \$				
		each	1		5	\$ -	-	1 \$	-			
		each	1		\$ -	\$ -	\$ - \$ -	1 \$				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost		
Payment	Labradory	Uı	nits		Hours per							Manhours and		!
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B32	S1-B32 Supply and Installation of Bridge - 7 m S1-B32 Supply and Installation of Bridge - 7 m	Total structur	re count:	1	EA	-		\$ -		\$ -	\$ 76,300.00	\$ 76,300.00	\$	76,300.00
		each	1			\$ -	\$ -	\$ -	1	\$ -				
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		545			<u> </u>	*	\$ -			\$ -				
V::B33	S1-B33 Supply and Installation of Bridge - 8 m S1-B33 Supply and Installation of Bridge - 8 m	Total structur	re count:	1	EA			\$ -		\$ -	\$ 87,200.00	\$ 87,200.00	\$	87,200.00
	The second property and modulation of Bridge 10 m													
		each	1			\$ -	\$ -	\$ -	1	\$ -				
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		each				φ -		\$ - \$ -		\$ - \$ -				
V::B34	S1-B34 Supply and Installation of Bridge - 10 m S1-B34 Supply and Installation of Bridge - 10 m	Total structur	re count:	1	EA		→	\$ -	_	\$ -	\$ 109,000.00	\$ 109,000.00	\$	109,000.00
		each	1			\$ -	\$ -	\$ -	1	\$ _				
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		each	1			\$ -		\$ -		\$ -				
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V::B35	S1-B35 Supply and Installation of Bridge - 13 m S1-B35 Supply and Installation of Bridge - 13 m	Total structur	re c <mark>ount:</mark>	0	EA			\$ -		\$ -	\$ 141,700.00	\$ 141,700.00	\$	-
		each	0			\$ -		\$ -	0	\$ -				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
		each	0		\$ -	\$ - \$			-			
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\/ B00	04 200 0 1 11 4 11 4 1 4 4	-	_							450,000,00	4500000	
V::B36	S1-B36 Supply and Installation of Bridge - 14 m	Total structure count:	0	EA		\$	-	\$	-	\$ 152,600.00	152,600.00	-
	S1-B36 Supply and Installation of Bridge - 14 m				7							
		- and	0		c	c		0 \$				
		each each	0		\$ -	\$ - \$ \$ - \$		0 \$	-			
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			0		\$ -	\$ - \$			=			
				· ·		\$ - \$			-			
V::B37	S1-B37 Supply and Installation of Bridge - 15 m	Total structure count:	0	EA		\$	-	\$	-	\$ 163,500.00	\$ 163,500.00	-
	S1-B37 Supply and Installation of Bridge - 15 m											
		each	0		\$ -	\$ - \$		0 \$	-			
			0		\$ -	\$ - \$	_	0 \$	-			
			0		\$ -	\$ - \$	-	0 \$	-			
		each	0		-	\$ - \$		0 \$	-			
		each	0		-	- \$			-			
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		I I	0		\$ -	\$ - \$		0 \$	-			
			0		-	\$ - \$		0 \$	-			
			0		5 -	\$ - \$		0 \$	-			
		each each	0		5 -	\$ - \$ \$ - \$	-	0 \$	-			
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V::B38	S1-B38 Supply and Installation of Bridge - 16 m	Total structure count:	0	EA		\$	-	\$	-	\$ 174,400,00	\$ 174,400.00	.
	S1-B38 Supply and Installation of Bridge - 16 m			_						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,	•
		each	0		\$ -	\$ - \$	-	0 \$	-			
		each	0		\$ -	\$ - \$	=	0 \$	-			
			0		\$	\$ - \$	-	0 \$	-			
			0		\$ -	\$ - \$	-	0 \$	-			
		each	0		\$ -	\$ - \$	-	0 \$	-			
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			0		-	\$ - \$			-			
		each	0		\$ -	\$ - \$			-			
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Valard Construction LP

	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
Payment			Units		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B39	S1-B39 Supply and Installation of Bridge - 25 m S1-B39 Supply and Installation of Bridge - 25 m	Total struct	ure count:	0	EA			-	\$	-	\$ 272,500.00	\$ 272,500.00	\$ -
		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -	\$ -	\$ -		-			
		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -	\$ -	\$ -	0 \$	-			
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		each	0			\$ -	\$ -		0 \$				
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V::B40	S1-B40 Supply and Installation of Bridge - 35 m S1-B40 Supply and Installation of Bridge - 35 m	Total struct	ure count:	0	EA			\$ -	\$	-	\$ 381,500.00	\$ 381,500.00	\$ -
		each	0				\$ -		0 \$	-			
		each	0			\$ -	\$ -	\$ -	0 \$				
		each	0			\$ -	\$ -	\$ -	0 \$	=			
		each	0			\$ -	-	-	0 \$	-			
		each each	0			\$ -	\$ - \$ -	- -	0 \$	-			
		each	0			ф -	\$ -	Ψ	0 \$	=			
		each	0			φ - ¢ -	\$ -	\$ - \$ -	0 \$	-			
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		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -		\$ -					
							\$ -	\$ -	\$	-			
V::B41	S1-B41 Supply and Installation of Bridge - 50 m S1-B41 Supply and Installation of Bridge - 50 m	Total struct	ure count:	0	EA			\$ -	\$	-	\$ 545,000.00	\$ 545,000.00	\$ -
		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -	\$ -	\$ -	0 \$	-			
		each	0	_		\$ -	\$ -	\$ -	0 \$	-			
		each	0			-	\$ -	\$ -	0 \$	-			
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		each	0	_		\$ -	\$ -	\$ -	0 \$	-			
		each	0			\$ -	T	\$ -	0 \$				
		each	0			\$ -	\$ -	\$ -	0 \$	-			
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		each	0			5 -	\$ - \$ -		0 \$				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost					Tot	al Unit Cost		
Payment		Units		Hours per							nhours and		
	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost			Total Materials	
		Total structure count:	1	EA	, , , , , , , , , , , , , , , , , , ,		\$ -		\$ - \$		•		654,000.00
		each 1					\$ -	1	\$ -				
		each 1					\$ -	1	\$ -				
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		each 1			T	1	\$ -	1	\$ -				
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		each 1 each 1				\$ - \$ -	\$ -						
		each 1		-		\$ -			\$ - \$ -				
		each 1				\$ -			\$ -				
		each 1			·	\$ -			\$ -				
		Caon					\$ -		\$ -				
		1				*	-		Ψ				
V::B43	S1-B43 Supply and Installation of Bridge - 65 m S1-B43 Supply and Installation of Bridge - 65 m	Total structure count:	0	EA			-		\$ - \$	708,500.00 \$	708,500.00	\$	-
		, 											
		each 0				\$ -		0	\$ - \$ -				
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		each 0					\$ -	0	\$ -				
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V::B44		Total structure count:	20	LM			\$ -		\$ - \$	139.45 \$	139.45	\$	2,788.98
	S1-B44 Installation of Corduroy Road						-		1				
		each 20					\$ -		\$ -				
		each 20 each 20					\$ - \$ -	20	\$ -				
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		each 20 each 20			·	•	\$ - \$ -		\$ - \$ -				
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		each 20		!		\$ -	\$ - \$ -	20	\$ -				
						\$ -	\$ -		\$ -				



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost		
Payment			Units		Hours per							Manhours and		
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
	S1-B45 Installation of Access Road - Access Class 3 S1-B45 Installation of Access Road - Access Class 3	Total struct	ure count:	2	KM			-	\$	-	\$ 80,700.00	\$ 80,700.00	\$	161,400.00
						<u> </u>								
		each	2			\$ -	\$ -	\$ -	2 \$ 2 \$	-				
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	S1-B46 Installation of Access Road - Access Trail S1-B46 Installation of Access Road - Access Trail	Total struct	ure count:	0	KM			\$ -	\$	-	\$ 80,700.00	\$ 80,700.00	\$	-
		_												
		each	0				\$ -		0 \$	-				
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		545					\$ -	<u>'</u>	\$	_				
V::B47	S1-B47 Installation of Access Road - Bypass Trail S1-B47 Installation of Access Road - Bypass Trail	Total struct	ure count:	0	KM			\$ -	\$	-	\$ 80,700.00	\$ 80,700.00	\$	-
		each	0			\$ -	\$ -	\$ -	0 \$	-				
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		each	0			\$ -	\$ -	\$ -	0 \$	-				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost					Т	otal Unit Cost	
Payment			Units		Hours per							lanhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V-H07 V-H08 V::C01	S1-C Tower Foundation Construction (S1-Cx) Guy Wire Anchors S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and technical s	Total struct specification	ure count:	32500	LM			\$ -		\$ - \$	468.58 \$	468.58	\$ 15,228,983.19
		each	32500			¢ _	\$ -	\$ -	32500	\$ -			
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		each	32500			\$ -	\$ -	\$ -					
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		each	32500			\$ -	\$ -	\$	32500	\$ -			
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		I					-	\$ -		\$ -			
V::C02	S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and technical			31500	_ LM			\$ -		\$ - \$	432.81 \$	432.81	\$ 13,633,365.65
		each	31500			\$ -	\$ -	\$ -		\$ -			
		each	31500			\$ -	\$ -	\$ -					
		each	31500			\$ -	\$ -	\$ -		\$ -			
		each	31500 31500			\$ -	\$ -	\$ - \$ -	_	\$ -			
		each each	31500			\$ -	\$ <u>-</u>	\$ - \$ -					
		each	31500			\$ -	\$ -	\$ -		\$ -			
		each	31500			\$ -	\$ -	\$ -		\$ -			
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		each	31500			\$ -	\$ -	\$ -					
		each	31500			\$ -	\$ -	\$ -					
		each	31500			\$ -	\$ -	\$ -					
							\$	\$ -		\$ -			
V::C02-1	S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and technic	Total struct	ure count:	2892	Ea			\$ 168,440.6	1	\$ 58.24 \$	994.35 \$	1,052.60	\$ 2,875,669.95
	Supervise installation Supervisory	each	2892	29	0.25	\$ 167.19	\$ 41.80	\$ 120,879.8	6 2892	\$ 41.80			
	Placement survey Foundation Survey (\$250(h)	each	2892		0.05	\$ 328.91	\$ 16.45						
		each	2892			\$ -	\$ -	\$ -	2892	\$ -			
		each	2892			\$ -	\$ -	\$ -	2892				
		each	2892			\$ -	\$ -	\$ -	2892	\$ -			
		each	2892			\$ -	\$ -	\$ -					
		each	2892			\$ -	\$ -	\$ -					
		each	2892			\$ -	\$ -	\$ -					
		each	2892			\$ -	\$ -	\$ -					
		each	2892			\$ -	\$ - • 50.24						
							\$ 58.24	\$ 168,440.6	1	\$ 58.24			



900kN as per design drawings and technical specification	Secretary Secr	Second S
900kN as per design drawings and technical specification	St.C2 Testing of Guy Wire Anchorup to 900kN as per destign disturbinal separation in testinal separation in testin	St-C2 Terming of Gay Wise Anchorup in 9000N as per design drawings and technical specifications. Supervise installation
900kN as per design drawings and technical specification	St.C2 Testing of Guy Wire Anchorup to 900kN as per destign disturbinal separation in testinal separation in testin	St-C2 Terming of Gay Wise Anchorup in 9000N as per design drawings and technical specifications. Supervise installation
Foundation Eurory (\$2508)	Placement survey	File Company Section of Support Section
each 1572	Control Cont	Control Cont
each 1572 \$ - \$ - \$ - 1572 \$ - \$ \$	each 1572	Second 1572 Second 157
each 1572	each 1572 \$ \$ \$ \$ \$ \$ \$ \$ \$	Second 1972 Second 197
each 1572 \$ - \$ - \$ - 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ - \$ 1572 \$ - \$ each 1572 \$ - \$ - \$ 58.24 \$ 91,559.00 \$ 58.24 \$ each 1572 \$ - \$ each 1572 \$ each 1572 \$ - \$ each 1572 \$ eac	Seach 1572 S	Second 1672 S
each 1572	each 1572	Gelf 1572
each 1572	each 1572	Company Comp
each 1572	Beach 1572	Second 1672 Second 167
each 1572	Back 1572 S	Carillage Foundations Carillage Foundation Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0.0084 for Tower Types At-1 (100 kPa) as per Dwg 505573-4622-42D-0
\$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ 58.24 \$ 91,559.00 \$ \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ 91,559.00 \$ \$ 58.24 \$ \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58.24 \$ \$ 58	S	Social Section Soci
oundation Types A1-1 (100 kPa) as per Total structure count: 936 FA 10,880.62 \$ 278.62 \$ 11,159.24 \$ 10,60 for Tower Types A1. 4718 Granular (m3) = 3 Excavation (m3) = 279 Backfill (m3) = 276	Strict S	St-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Total structure count: 36
ndation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. 4718 Granular (m3) = 3 Excavation (m3) = 279 Backfill (m3) = 276	Sincal Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A1-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (100 kPa) as per Dwg 505573-4822-42D-0.084 for Tower Types A2-1 (1	Since Assembly and Installation of Foundation Types A1-1 (100 kPa) as per byg 505573-4622-42DD-0084 for Towns Since Si
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Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27	Cleanup San Colorage Each 36 22 2.00 3 194.96 389.92 14,037.17 36 389.92 389	Cleanup each 36 22 2.00 9 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$
Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27	Cleanup San Colorage Each 36 22 2.00 3 194.96 389.92 14,037.17 36 389.92 389	Cleanup each 36 22 2.00 9 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$
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Found Excavation each 36 19 3.10 \$ 1,143.76 \$ 3,545.17 \$ 127,626.14 36 \$ 3,545.17	Backfill & Compact Backfil	Backfill & Compact Backfil
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Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27	Cleanup San Colorage each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92	Cleanup each 36 22 2.00 9 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$
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	Cleanup State Colorege Each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.9	Cleanup each 36 22 2.00 9 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$
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Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27 Backfill and Compact each 36 21 3.10 \$ 959.25 \$ 2,973.26 \$ 107,037.22 36 \$ 2,973.26	Sample S	Sample S
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Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27 Backfill and Compact each 36 21 3.10 \$ 959.25 \$ 2,973.26 \$ 107,037.22 36 \$ 2,973.26	Each 36 S S S S S S S S S	Each 36
Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27 Backfill and Compact each 36 21 3.10 \$ 959.25 \$ 2,973.26 \$ 107,037.22 36 \$ 2,973.26	Each 36 S S S S S S S S S	Each 36 \$ \$ \$ \$ \$ \$ \$ \$ \$
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Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27	Cleanup State Colorege Each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.9	Cleanup each 36 22 2.00 9 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$ 389.92 \$ 14,037.17 36 \$
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Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27	Foundation Types A2-1 (100 kPa) as per Total structure count: 17	Each 36 \$ \$ \$ \$ \$ \$ \$ \$ \$
Grillage Installation each 36 20 3.10 \$ 1,002.72 \$ 3,105.27 \$ 111,789.76 36 \$ 3,105.27 Backfill and Compact each 36 21 3.10 \$ 959.25 \$ 2,973.26 \$ 107,037.22 36 \$ 2,973.26	Each 36 S S S S S S S S S	Each 36 \$ \$ \$ \$ \$ \$ \$ \$ \$
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ľ	NALCOR 350 kV HVdc Line Cons	struction Front 1 (Labrac	dor)											Total Unit Cost	
ent	IN LEGER GOO RV IIV GO EMIC GOIN	our double in (Labrace	401)		Units		Hours per	Crew Cost						Manhours and	
	Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-C6 Assembly and Installation of Fo	oundation Types A4-1 (100	kPa) as nor	Total struc	ture count:	0	EA		\$	-	\$	15,729.54	\$ 468.98	\$ 16,198.52	\$
	S1-C6 Assembly and Installation of Fou								Ψ		•	10,123.04	400.50	Ψ 10,130.52	Ψ
	•	,, ,	,			•									
	Steel Weight (lb) =	9259 Gra	anular (m3) =	4	Excavation (m3) =	364	Backfill (m3) =	360							
-	Haul	Found	dation Haul	each	C		3.86	\$ 441.04 \$	1,701.59 \$		0 \$	-			
-	Excavate		d Excavation	each	C		4.05	\$ 1,143.76 \$,		0 \$	-			
-	Install	Grillaç	ge Installation	each	C		5.12	\$ 1,002.72 \$	5,129.22 \$		0 \$	-			
	Backfill & Compact		fill and Compact	each	0	21	4.05	\$ 959.25 \$	3,881.13 \$		0 \$	-			
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ļ				each	C			\$ - \$		-	0 \$	-			
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	C4 C7 Assembly and Installation of E	oundation Tumos D4 4 (400	\ lsDa\ aa mar	Total atmis	4	2	EA		· ·	25 255 04	\$	47 007 00	£20.02	¢ 40.400.70	¢ 4
	S1-C7 Assembly and Installation of Fo S1-C7 Assembly and Installation of Fou			Total struc		_	EA		D	35,255.91	Ф	17,627.96	538.82	\$ 18,166.78	\$ 1
	31-C/ Assembly and installation of Fou	ildation Types B1-1 (100 KF	a) as per Dwg 50	3373-4022-4	200-0004 101 10	wei Types DT.									
	Steel Weight (lb) =	11155 Gra	anular (m3) =	5	Excavation (m3) =	394	Backfill (m3) =	389							
	Haul		dation Haul	each	2	_	. ,	\$ 441.04 \$	2,050.01 \$	4,100.02	2 \$	2,050.01			
	Excavate		d Excavation	each	2		4.38	\$ 1,143.76 \$		10,022.26		5,011.13			
-	Install		ge Installation	each	2		5.96	\$ 1,002.72 \$		11,948.35		5,974.17			
ľ	Backfill & Compact		fill and Compact	each	2	21	4.38	\$ 959.25 \$		8,405.45		4,202.72			
					_	22	2.00	\$ 194.96 \$		779.84		389.92			
-	Cleanup		Cleanup	each	2	22									
-			Cleanup	each each	2		2.00	\$ - \$	- \$	-	2 \$	-			
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- - - -			Cleanup	each	2		2.00	\$ - \$			2 \$ 2 \$				
- - - -	Cleanup	Site C		each each each	2		EA	\$ - \$	- \$ - \$	-	2 \$ 2 \$	-	\$ 446.78	\$ 18,193.44	\$ 17
		s⊪ coundation Types B2-1 (100) kPa) as per	each each each Total struc	2 2 2 2 2 2 ture count:	40		\$ - \$	- \$ - \$ 17,627.96 \$	35,255.91	2 \$ 2 \$	- - 17,627.96	\$ 446.78	\$ 18,193.44	\$ 17
-	S1-C8 Assembly and Installation of Fou	oundation Types B2-1 (100 kPa) kPa) as per a) as per Dwg 50:	each each each Total struc	ture count:	40 wer Types B2.	EA	\$ - \$ \$ - \$ \$ - \$	- \$ - \$ 17,627.96 \$	35,255.91	2 \$ 2 \$	- - 17,627.96	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fou S1-C8 Assembly and Installation of Fou Steel Weight (lb) =	oundation Types B2-1 (100 hdation Types B2-1 (100 kPa) kPa) as per	each each each Total struct 5573-4622-4	ture count: 2DD-0003 for To	40 wer Types B2.	EA Backfill (m3) =	\$ - \$ \$ - \$ \$ - \$	- \$ - \$ 17,627.96 \$	- 35,255.91 709,866.44	2 \$ 2 \$ \$	- 17,627.96 17,746.66	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fou S1-C8 Assembly and Installation of Fou Steel Weight (lb) =	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa) kPa) as per a) as per Dwg 50:	each each each Total struc 5573-4622-4 4 each	ture count: 2DD-0003 for To Excavation (m3) =	40 wer Types B2. 355	EA Backfill (m3) = 5.01	\$ - \$ \$ - \$ \$ - \$ \$ \$	- \$ - \$ 17,627.96 \$ \$	- 35,255.91 709,866.44 88,384.13	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Foundation of Foundation (Ib) = Haul Excavate	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gra) kPa) as per a) as per Dwg 50: anular (m3) =	each each each Total struc 5573-4622-4 4 each each	ture count: 2DD-0003 for To Excavation (m3) =	40 wer Types B2. 355 17 19	EA Backfill (m3) = 5.01 4.94	350 \$ 441.04 \$ 1,143.76 \$	- \$ - \$ 17,627.96 \$ \$ 2,209.60 \$ 5,650.95 \$	- 35,255.91 709,866.44 88,384.13 226,038.09	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66 2,209.60 5,650.95	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Grants Found Grilles	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation	each each each Total struc 5573-4622-4 each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20	EA Backfill (m3) = 5.01 4.94 4.74	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ - \$ 17,627.96 \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install Backfill & Compact	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact	each each each Total struc 5573-4622-4 each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21	EA Backfill (m3) = 5.01 4.94 4.74 4.94	350 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	- \$ - \$ 17,627.96 \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation	each each each Total struc 5573-4622-4 each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74	350 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	- \$ - \$ 17,627.96 \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install Backfill & Compact	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact	each each each Total struc 5573-4622-4 4 each each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94	350 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	- \$ \$ 17,627.96 \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 5 \$ 5 \$ 6 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install Backfill & Compact	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact	each each each Total struc 5573-4622-4 4 each each each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 -	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install Backfill & Compact	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact	each each each Total struc 5573-4622-4 4 each each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94	350 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 5 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - -	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install Backfill & Compact	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact	each each each Total struc 5573-4622-4 4 each each each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 5 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 -	\$ 446.78	\$ 18,193.44	\$ 17
	S1-C8 Assembly and Installation of Fo S1-C8 Assembly and Installation of Fou Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Grans Found Gallacki	D kPa) as per a) as per Dwg 50: canular (m3) = dation Haul d Excavation fill and Compact Cleanup	each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - - 17,746.66			
	S1-C8 Assembly and Installation of Fousteel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C9 Assembly and Installation of Fouster Install	Site Coundation Types B2-1 (100 kPa) ndation Types B2-1 (100 kPa) 8424 Gri Found Grillen Site C	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact Deanup	each each each Total struc 5573-4622-4 4 each each each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - -			
	S1-C8 Assembly and Installation of Fo S1-C8 Assembly and Installation of Fou Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	Site Coundation Types B2-1 (100 kPa) ndation Types B2-1 (100 kPa) 8424 Gri Found Grillen Site C	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact Deanup	each each each Total struc 5573-4622-4 4 each each each each each each each each	2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - - 17,746.66			
	S1-C8 Assembly and Installation of Foundation States Weight (lb) = Haul Excavate Install & Compact Cleanup S1-C9 Assembly and Installation of Foundation States Install & Compact Cleanup	Site Coundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Grills Backfi Site Coundation Types A1-1A (250 kl ndation Types A1-1A (250 kl	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5	each each each Total struc 5573-4622-4 4 each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 wer Types B2. 355 17 19 20 21 22 196 ower Types A1.	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00	350 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ \$ - \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ - \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - - 17,746.66			
	S1-C8 Assembly and Installation of Fo S1-C8 Assembly and Installation of Fou Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C9 Assembly and Installation of Fou Steel Weight (lb) =	Dundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Grief Found Griller Backt Site C	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge installation fill and Compact Disanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) =	each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for To Excavation (m3) = 40 40 40 40 40 40 40 40 40 40 40 40 40	40 wer Types B2. 355 17 19 20 21 22 196 pwer Types A1.	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) =	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85	2 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			
	S1-C8 Assembly and Installation of Fo S1-C8 Assembly and Installation of Fou Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C9 Assembly and Installation of Fou Steel Weight (lb) = Haul	Dundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Griph Grilling Backfi Site C	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation fill and Compact Deanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul	each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 4	40 wer Types B2. 355 17 19 20 21 22 196 pwer Types A1. 200 17	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$ \$ 967.72 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85 709,866.44 1,666,614.18	2 \$ 2 \$ 3 \$ 5 \$ 5 \$ 6 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			
	S1-C8 Assembly and Installation of Foundaria Steel Weight (lb) = Haul Excavate Install & Compact Cleanup S1-C9 Assembly and Installation of Foundaria Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri 8424 Gri Foundation Types B2-1 (300 kPa 8424 Gri Foundation Types A1-1A (250 kl 2866 Gri Foundation Types A1-1A (250 kl 2866 Gri	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul d Excavation	each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 4	40 wer Types B2. 355 17 19 20 21 22 196 ower Types A1. 200 17 19	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19 2.22	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 199 \$ 441.04 \$ \$ 1,143.76 \$ \$ \$ 1,143.76 \$ 1,143.76	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$ \$ \$ 967.72 \$ 2,540.17 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85 709,866.44 1,666,614.18	2 \$ 2 \$ 3 \$ 5 \$ 5 \$ 6 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			
	S1-C8 Assembly and Installation of Found Steel Weight (lb) = Haul Excavate Installation of Found Installation Installatio	oundation Types B2-1 (100 ndation Types B2-1 (100 kPa 8424 Gri Found Grillag Backfi Site C	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul d Excavation ge Installation	each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 4	196 Description of the state o	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19 2.22 2.27	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$ \$ \$ 967.72 \$ 2,540.17 \$ 2,279.97 \$	35,255.91 709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85 709,866.44 1,666,614.18 189,673.92 497,873.65 446,874.12	2 \$ 2 \$ 3 \$ 5 \$ 5 \$ 6 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			
	S1-C8 Assembly and Installation of Found Steel Weight (lb) = Haul Excavate Installation of Found Installation Ins	oundation Types B2-1 (100 kPa 8424 Grant G	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul d Excavation ge Installation fill and Compact	each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 40 40 40 40	196 Dower Types A1. 200 17 19 20 21 22 196 20 21 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19 2.22 2.27 2.22	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ \$. \$ \$. \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$. \$ \$.	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$ \$ \$ \$ 967.72 \$ 2,540.17 \$ 2,279.97 \$ 2,130.39 \$		2 \$ 2 \$ 3 \$ 5 \$ 5 \$ 6 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			
	S1-C8 Assembly and Installation of Found Steel Weight (lb) = Haul Excavate Installation of Found Installation Installatio	oundation Types B2-1 (100 kPa 8424 Grant G	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation ge Installation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul d Excavation ge Installation	each each each Total struc 5573-4622-4 4 each each each each each each each each	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 40 40 40 40	40 wer Types B2. 355 17 19 20 21 22 196 ower Types A1. 200 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19 2.22 2.27 2.22	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 199.8\$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ \$ 17,746.66 \$ \$ \$ \$ 967.72 \$ 2,540.17 \$ 2,279.97 \$ 2,130.39 \$ 584.88 \$	709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85 709,866.44 1,666,614.18 189,673.92 497,873.65 446,874.12 417,555.62 114,636.86	2 \$ 2 \$ 3 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			
	S1-C8 Assembly and Installation of Found Steel Weight (lb) = Haul Excavate Installation of Found Installation Ins	oundation Types B2-1 (100 kPa 8424 Grant G	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul d Excavation ge Installation fill and Compact	each each each each Total struc 5573-4622-4 each each each each each each each eac	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 40 40 40 40	196 Description of the state o	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19 2.22 2.27 2.22	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 194.96 \$ \$ \$ 1,002.72 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$ \$ \$ \$ 967.72 \$ 2,540.17 \$ 2,279.97 \$ 2,130.39 \$ 584.88 \$ - \$	709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85 709,866.44 1,666,614.18 189,673.92 497,873.65 446,874.12 417,555.62 114,636.86	2 \$ 2 \$ 3 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13 967.72 2,540.17 2,279.97 2,130.39 584.88			
	S1-C8 Assembly and Installation of Found Steel Weight (lb) = Haul Excavate Installation of Found Installation Ins	oundation Types B2-1 (100 kPa 8424 Grant G	D kPa) as per a) as per Dwg 50: anular (m3) = dation Haul d Excavation fill and Compact Cleanup 50 kPa) as per Pa) as per Dwg 5 anular (m3) = dation Haul d Excavation ge Installation fill and Compact	each each each Total struc 5573-4622-4 4 each each each each each each each each	ture count: 2DD-0003 for Tor Excavation (m3) = 40 40 40 40 40 40 40 40 40 40 40 40 40	40 wer Types B2. 355 17 19 20 21 22 196 ower Types A1. 200 17 19 20 21 22	EA Backfill (m3) = 5.01 4.94 4.74 4.94 2.00 EA Backfill (m3) = 2.19 2.22 2.27 2.22	350 \$ 441.04 \$ \$ 1,143.76 \$ \$ 199.8\$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 17,627.96 \$ \$ 17,627.96 \$ \$ \$ 17,627.96 \$ \$ \$ \$ 2,209.60 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ - \$ 17,746.66 \$ \$ \$ \$ 17,746.66 \$ \$ \$ \$ \$ 2,279.97 \$ 2,130.39 \$ 584.88 \$ - \$ - \$	709,866.44 88,384.13 226,038.09 190,274.22 189,573.15 15,596.85 709,866.44 1,666,614.18 189,673.92 497,873.65 446,874.12 417,555.62 114,636.86	2 \$ 2 \$ 3 \$ 3 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40 \$ 40	- 17,627.96 17,746.66 2,209.60 5,650.95 4,756.86 4,739.33 389.92 - - 17,746.66 8,503.13			



NALCOR 350 kV HVdc Line (Construction Front 1 (Labrador)		11-4-			Crew Cost						Total Unit Cost		
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
S1-C10 Assembly and Installation S1-C10 Assembly and Installation of	n of Foundation Types A2-1A (250 kPa) as per of Foundation Types A2-1A (250 kPa) as per Dwo	Total struct 505573-462	cture count: 2-42DD-0084 for To	98 wer Types A2.	EA			1,350,640.85		\$ 13,782.05	\$ 246.96	\$ 14,029.01	\$	24,2
Steel Weight (lb) =	5512 Granular (m3) =	2	Excavation (m3) =	263	Backfill (m3) =	261								
Haul	Foundation Haul	each	98	17	3.80	\$ 441.04	1,674.41	\$ 164,092.49	98	\$ 1,674.41				
Excavate	Found Excavation	each	98	19	3.93	\$ 1,143.76								
Install	Grillage Installation	each	98	20	3.45	\$ 1,002.72								
Backfill & Compact	Backfill and Compact	each	98	21	3.93	\$ 959.25	3,767.07							
Cleanup	Site Cleanup	each	98	22	2.00	\$ 194.96								
·		each	98			\$ - \$		\$ -	98					
		each	98			\$ - 9	-	\$ -	98					
		each	98			\$ - \$	-	\$ -	98	\$ -				
-		•					13,782.05	\$ 1,350,640.85		\$ 13,782.05				
	n of Foundation Types A3-1A (250 kPa) as per of Foundation Types A3-1A (250 kPa) as per Dwg			6	EA		N	\$ 55,437.84		\$ 9,239.64	\$ 168.54	\$ 9,408.18	\$	1,0
31-011 Assembly and installation of	or Foundation Types A3-TA (200 KF a) as per Dwg	1 30337 3-402	2-4200-0004 101 10	wei Types As.										
Steel Weight (lb) =	3483 Granular (m3) =	2	Excavation (m3) =	223	Backfill (m3) =	222	121.12		1 -1					
Haul	Foundation Haul	each	6	17	2.45	\$ 441.04 \$								
Excavate	Found Excavation	each	6	19	2.48	\$ 1,143.76								
Install	Grillage Installation	each	6	20	2.55	\$ 1,002.72								
Backfill & Compact	Backfill and Compact	each	6	21	2.48	\$ 959.25								
Cleanup	Site Cleanup	each	6	22	2.00	\$ 194.96								
						\$	- :	\$ -	6	\$ -				
		each	6		_									
		each	6			\$ - 3			6	\$ -				
		each each	6			\$ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	9,239.64	\$ - \$ 55,437.84	6	\$ - \$ - \$ 9,239.64				
S1-C12 Assembly and Installation	on of Foundation Types A4-1A (250 kPa) as per of Foundation Types A4-1A (250 kPa) as per Dwg	each each Total struct 505573-462	2-42DD-0084 for To			\$ - 5	-	\$ - \$ 55,437.84	6	\$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation of S1-C12 Assembly and Installation of Steel Weight (lb) =	on of Foundation Types A4-1A (250 kPa) as per of Foundation Types A4-1A (250 kPa) as per Dwo 5512 Granular (m3) =	each each Total struc j 505573-462	ture count: 2-42DD-0084 for To Excavation (m3) =	wer Types A4. 263	Backfill (m3) =	261	9,239.64	5 - \$ 55,437.84 \$ -	6	\$ - \$ - \$ 9,239.64 \$ 11,017.48	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation of S1-C12 Assembly and Installation of Steel Weight (lb) =	of Foundation Types A4-1A (250 kPa) as per Dwg	Total struct 505573-462 2 each	2-42DD-0084 for To	wer Types A4. 263 17	Backfill (m3) = 2.30	261 \$ 441.04 \$	9,239.64	5 - 55,437.84 -	6	\$ - \$ 9,239.64 \$ 11,017.48	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation of S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate	of Foundation Types A4-1A (250 kPa) as per Dwo 5512 Granular (m3) =	Total struct 505573-462 2 each each	2-42DD-0084 for To	263 17 19	Backfill (m3) = 2.30 2.93	261 \$ 441.04 \$ \$ 1,143.76	9,239.64 1,012.85 3,347.92	5 - \$ 55,437.84 \$ - \$ - \$ -	0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul	Total struct 505573-462 2 each each each	2-42DD-0084 for To	263 17 19 20	Backfill (m3) = 2.30 2.93 3.45	261 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002. 72	9,239.64 1,012.85 3,347.92 3,458.97	\$ 55,437.84 \$ 55,437.84 \$ - \$ - \$ - \$ -	0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation	Total struction of the	2-42DD-0084 for To	263 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93	261 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	1,012.85 3,347.92 3,458.97 2,807.82	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ -	0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	Total struc 505573-462 each e	2-42DD-0084 for To	263 17 19 20	Backfill (m3) = 2.30 2.93 3.45	261 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total structure as the search	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0	263 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total struction of the	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0	263 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total structure as the search	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0	263 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total struction of the	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0	263 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96	\$ 11,264.44	\$	
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struct 505573-462 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0	263 17 19 20 21 22	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - 11,017.48	\$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per	Total struct 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 cture count:	263 17 19 20 21 22	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ 264.42			3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation of	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg	each each Total struc 505573-462 each each each each each each each 505573-462	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	263 17 19 20 21 22 13 wer Types B1.	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00	\$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - 11,017.48	\$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) =	each each Total struc 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Exture count: 2-42DD-0084 for To	263 17 19 20 21 22 13 wer Types B1.	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) =	261 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation Steel Weight (lb) = Haul	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul	each each Total struc 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	263 17 19 20 21 22 13 wer Types B1.	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40	261 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 270 \$ 441.04 \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - 11,017.48	\$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation	each each Total struct 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 Eture count: 2-42DD-0084 for To Excavation (m3) = 13 13	263 17 19 20 21 22 13 wer Types B1. 272 17	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02	261 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - - 11,017.48	\$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total struct 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	263 17 19 20 21 22 13 wer Types B1. 272 17 19 20	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02 3.56	\$ - \$ \$ 441.04 \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ \$ 1,002.72 \$ \$ \$ 1,002.72 \$ \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - - 11,017.48	\$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struct 505573-462 each each each each each each each eac	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Exture count: 2-42DD-0084 for To Excavation (m3) = 13 13 13	263 17 19 20 21 22 13 wer Types B1. 272 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02 3.56 3.02	\$ - \$ \$ 441.04 \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 270 \$ 441.04 \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - - 11,017.48 1,057.42 3,457.54 3,567.05 2,899.76	\$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total struct 505573-462 2 each each each each each each 505573-462 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 Eture count: 2-42DD-0084 for To Excavation (m3) = 13 13 13	263 17 19 20 21 22 13 wer Types B1. 272 17 19 20	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02 3.56	261 \$ 441.04 \$ 1,143.76 \$ 194.96 \$ 194.96 \$ 1,143.76 \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - - 11,017.48 1,057.42 3,457.54 3,567.05 2,899.76 389.92	\$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struct 505573-462 each each each each each each each eac	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 Eture count: 2-42DD-0084 for To Excavation (m3) = 13 13 13 13	263 17 19 20 21 22 13 wer Types B1. 272 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02 3.56 3.02	\$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ \$ 1,002.72 \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - - 11,017.48 1,057.42 3,457.54 3,567.05 2,899.76 389.92	\$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struct 505573-462 2 each each each each each each each each	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 Excavation (m3) = 13 13 13 13	263 17 19 20 21 22 13 wer Types B1. 272 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02 3.56 3.02	261 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ 1.94.96 \$ \$ \$ 1.94.96 \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - - 11,017.48 1,057.42 3,457.54 3,567.05 2,899.76 389.92 -	\$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$				3,4
S1-C12 Assembly and Installation S1-C12 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C13 Assembly and Installation S1-C13 Assembly and Installation S1-C13 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types A4-1A (250 kPa) as per Dwg 5512 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup on of Foundation Types B1-1A (250 kPa) as per of Foundation Types B1-1A (250 kPa) as per Dwg 5754 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struct 505573-462 each each each each each each each eac	2-42DD-0084 for To Excavation (m3) = 0 0 0 0 0 0 0 0 0 0 Eture count: 2-42DD-0084 for To Excavation (m3) = 13 13 13 13	263 17 19 20 21 22 13 wer Types B1. 272 17 19 20 21	Backfill (m3) = 2.30 2.93 3.45 2.93 2.00 EA Backfill (m3) = 2.40 3.02 3.56 3.02	\$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,002.72 \$ \$ \$ 1,002.72 \$ \$	1,012.85 3,347.92 3,458.97 2,807.82 389.92 - - 11,017.48 1,057.42 3,457.54 3,567.05 2,899.76 389.92 - -	\$ 55,437.84 \$ 55,437.84 \$ - \$ 55,437.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ 9,239.64 \$ 11,017.48 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$				3,4



NALCOR 350 kV HVdc Line Co	construction Front 1 (Labrador)		11.2			Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
THE TIEST		I	. 2500	010W 140.	dille	riodily ridio	Clint Coot			51.11. 555t		l	
	of Foundation Types B2-1A (250 kPa) as per f Foundation Types B2-1A (250 kPa) as per Dw			0 ower Types B2.	EA		\$	-	\$	17,526.14 \$	446.78	\$ 17,972.92	\$
Steel Weight (lb) =	8424 Granular (m3) =	4	Excavation (m3) =	355	Backfill (m3) =	350							
Haul	Foundation Haul	each	0	17	4.51	\$ 441.04		-	0 \$	=			
Excavate	Found Excavation	each	0	19	4.94	\$ 1,143.76		-	0 \$	-			
Install	Grillage Installation	each	0	20	4.74	\$ 1,002.72		-	0 \$	-			
Backfill & Compact	Backfill and Compact	each	0	21	4.94	\$ 959.25			0 \$	=			
Cleanup	Site Cleanup	each	0	22	2.00	\$ 194.96		-	0 \$	=			
		each	0			\$ - 9		-	0 \$	-			
		each	0			\$ - 9		_	0 \$	-			
		each	0			- 9			0 \$	-			
							17,526.14 \$		\$	-			
C1 C1E Assembly and Installation	of Foundation Types C1-1 (100 kPa) as per	Total atru	oturo counti	28	EA		· ·	490,968.52	\$	17,534.59 \$	474 44	\$ 18,006.00	\$
	f Foundation Types C1-1 (100 kPa) as per f Foundation Types C1-1 (100 kPa) as per Dwg		cture count:		EA		\$	490,968.52	Ф	17,034.09	471.41	\$ 18,000.00	Þ
31-C13 Assembly and installation of	r Foundation Types C1-1 (100 KFa) as per Dwg	303373-4022	42DD-0003 101 10V	ver Types CT.									
Steel Weight (lb) =	8752 Granular (m3) =	4	Excavation (m3) =	365	Backfill (m3) =	361							
Haul	Foundation Haul	each	28	17	3.65	\$ 441.04	1,608.41 \$	45,035.37	28 \$	1,608.41			
Excavate	Found Excavation	each	28	19	5.06	\$ 1,143.76		161,923.09	28 \$	5,782.97			
Install	Grillage Installation	each	28	20	4.89	\$ 1,002. 72 \$	4,903.25 \$	137,290.95	28 \$	4,903.25			
Backfill & Compact	Backfill and Compact	each	28	21	5.06	\$ 959.25	4,850.05 \$	135,801.32	28 \$	4,850.05			
Cleanup	Site Cleanup	each	28	22	2.00	\$ 194.96	389.92 \$	10,917.80	28 \$	389.92			
		each	28			- 9	- \$	<u>-</u>	28 \$	-			
		each	28			\$ - 3	- \$	-	28 \$	-			
		each each	28			\$ - 9	- \$	490,968.52	28 \$	17,534.59			
S1-C16 Assembly and Installation S1-C16 Assembly and Installation of	of Foundation Types C2-1 (100 kPa) as per f Foundation Types C2-1 (100 kPa) as per Dwg	each Total strue	28 cture count:	32 wer Types C2.	EA	\$ - 3	- \$	-	28 \$	-	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) =	of Foundation Types C2-1 (100 kPa) as per f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) =	each Total strue	28 cture count:		EA Backfill (m3) =	\$ - 3	5 - \$ 5 17,534.59 \$	490,968.52	28 \$	17,534.59	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of	f Foundation Types C2-1 (100 kPa) as per Dwg	Total strue 505573-4622	cture count: 2-42DD-0003 for Tov	ver Types C2. 409	Backfill (m3) = 5.27	\$ - 3	5 - \$ 5 17,534.59 \$ \$ \$ 6 2,324.94 \$	- 490,968.52 638,335.92 74,398.19	28 \$ \$ \$	17,534.59 19,948.00 \$	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) =	Total structure 505573-4622 5 each each	28 cture count: 2-42DD-0003 for Tov Excavation (m3) = 32 32	409 17 19	Backfill (m3) = 5.27 5.55	404	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 490,968.52 638,335.92 74,398.19 202,959.47	28 \$ \$ \$ \$ 32 \$ 32 \$	17,534.59 19,948.00 \$ 2,324.94 6,342.48	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul	Total structure 505573-4622 5 each each each	cture count: 2-42DD-0003 for Tov Excavation (m3) = 32 32 32	409 17 19 20	Backfill (m3) = 5.27 5.55 5.56	404 \$ 441.04 \$ 1,143.76 \$ 1,002.72	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16	28 \$ \$ \$ \$ 32 \$ 32 \$ 32 \$	19,948.00 \$ 2,324.94 6,342.48 5,571.35	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation	Total structure 505573-4622 5 each each each each each	Excavation (m3) = 32 32 32 32 32	409 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62	28 \$ \$ \$ \$ \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	Total strue 505573-4622 5 each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32	409 17 19 20	Backfill (m3) = 5.27 5.55 5.56	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16	28 \$ \$ \$ \$ \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	19,948.00 \$ 2,324.94 6,342.48 5,571.35	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total struct 505573-4622 5 each each each each each each each	Excavation (m3) = 32 32 32 32 32 32 32 32 32 32	409 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62	28 \$ \$ \$ \$ \$ \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32	17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total struct 505573-4622 5 each each each each each each each each	Excavation (m3) = 32 32 32 32 32 32 32 32 32	409 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	28 \$ \$ \$ \$ \$ \$ 28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 -	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total struct 505573-4622 5 each each each each each each each	Excavation (m3) = 32 32 32 32 32 32 32 32 32 32	409 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 - -	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total struct 505573-4622 5 each each each each each each each each	Excavation (m3) = 32 32 32 32 32 32 32 32 32	409 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 -	577.46	\$ 20,525.46	\$
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	Total structure 505573-4622 5 each each each each each each each each	28 cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 3	409 17 19 20 21 22	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 32	409 17 19 20 21 22	Backfill (m3) = 5.27 5.55 5.56 5.55	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 - -	577.46 624.60		
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 32	409 17 19 20 21 22	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg	Total structure 505573-4622 5 each each each each each each each each	28 cture count: 2-42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 32	409 17 19 20 21 22 56 ver Types D1.	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ -	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Clearup of Foundation Types D1-1 (100 kPa) as per foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) =	Total structure 505573-4622 5 each each each each each each each each	28 cture count: 2-42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 52 52 542DD-0003 for Tov Excavation (m3) =	409 17 19 20 21 22 56 wer Types D1.	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48	32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ \$ 32 \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) =	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 52 542DD-0003 for Tov Excavation (m3) =	ver Types C2. 409 17 19 20 21 22 56 ver Types D1. 428	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80	28 \$ \$ \$ \$ \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$ 32 \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) = Haul	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul Found Excavation	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 52 542DD-0003 for Tov Excavation (m3) = 56 56	409 17 19 20 21 22 56 wer Types D1. 428 17 19	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59 5.76	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80 113,439.22 368,714.63	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$ 2,025.70 6,584.19			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 542DD-0003 for Tov Excavation (m3) = Excavation (m3) = 56 56 56	ver Types C2. 409 17 19 20 21 22 56 ver Types D1. 428	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59 5.76 5.90	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$ 2,025.70 6,584.19 5,915.22			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 32	409 47 19 20 21 22 56 wer Types D1. 428 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59 5.76	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - 3 \$ - 5 \$ - 5 \$ 1,143.76 \$ 1,143.76 \$ 1,143.76	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80 113,439.22 368,714.63 331,252.56	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$ 2,025.70 6,584.19			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 32	409 17 19 20 21 22 56 wer Types D1. 428 17 19 20	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59 5.76 5.90 5.76	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - 3 \$ - 3 \$ - 3 \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,534.59 \$ \$ \$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80 113,439.22 368,714.63 331,252.56 309,232.80	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$ 2,025.70 6,584.19 5,915.22 5,522.01			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 3	409 47 19 20 21 22 56 wer Types D1. 428 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59 5.76 5.90 5.76	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - 3 \$ - 3 \$ - 3 \$ 1,143.76 \$ 1,143.76 \$ 1,1002.72 \$ 959.25 \$ 194.96	\$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80 113,439.22 368,714.63 331,252.56 309,232.80 21,835.59	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$ 2,025.70 6,584.19 5,915.22 5,522.01 389.92			
S1-C16 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C17 Assembly and Installation S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	f Foundation Types C2-1 (100 kPa) as per Dwg 10252 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D1-1 (100 kPa) as per f Foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	Total structure 505573-4622 5 each each each each each each each each	cture count: -42DD-0003 for Tov Excavation (m3) = 32 32 32 32 32 32 32 32 32 32 32 32 32	409 47 19 20 21 22 56 wer Types D1. 428 17 19 20 21	Backfill (m3) = 5.27 5.55 5.56 5.55 2.00 EA Backfill (m3) = 4.59 5.76 5.90 5.76	\$ 404 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - 3 \$ - 3 \$ - 3 \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 1,002.72 \$ 1,002.72	\$ 17,534.59 \$ \$ \$ 17,534.59 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	74,398.19 202,959.47 178,283.16 170,217.62 12,477.48 - 638,335.92 1,144,474.80 113,439.22 368,714.63 331,252.56 309,232.80 21,835.59	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,534.59 19,948.00 \$ 2,324.94 6,342.48 5,571.35 5,319.30 389.92 19,948.00 20,437.05 \$ 2,025.70 6,584.19 5,915.22 5,522.01 389.92 389.92			



	NALCOR 350 kV HVdc Line Constru	uction Front 1 (La	ibrador)					Crew Cost						Total Unit Cost		
ent De	Description				Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
3 S 1	61-C18 Assembly and Installation of Fou 61-C18 Assembly and Installation of Found	undation Types D2- dation Types D2-1 (1	1 (100 kPa) as per 00 kPa) as per Dwg 5		cture count: -42DD-0003 for To	28 ower Types D2.	EA		\$	611,654.24	\$	21,844.79	683.89	\$ 22,528.69	\$	19,148.99
St	Steel Weight (lb) =	11685	Granular (m3) =	6	Excavation (m3) =	452	Backfill (m3) =	445								
Ha	laul		Foundation Haul	each	28			\$ 441.04	\$ 2,588.28 \$	72,471.96	28 \$	2,588.28				
E	Excavate		Found Excavation	each	28	19	6.02	\$ 1,143.76		192,739.14	28 \$	6,883.54				
	nstall		Grillage Installation	each	28		6.19	\$ 1,002.72		173,879.29		6,209.97				
	Backfill & Compact		Backfill and Compact	each	28		6.02		\$ 5,773.07 \$	161,646.05	28 \$	5,773.07				
CI	Cleanup		Site Cleanup	each	28		2.00		\$ 389.92 \$	10,917.80	28 \$	389.92				
				each	28				\$ - \$	-	28 \$					
				each	28				\$ - \$ \$ - \$	-	28 \$ 28 \$	-				
				each	28			-	\$ - \\$ \$ 21,844.79 \\$	611,654.24		21,844.79				
9 S1	61-C19 Assembly and Installation of Fou	Indation Types F1-	1 (100 kPa) as nor	Total struc	cture count:	24	EA			556,271.64	\$	23,177.98	756.68	\$ 23,934.67	e	18,160
	61-C19 Assembly and Installation of Found						_ EA		2	550,271.04	Ą	23,177.90	730.00	\$ 23,934.07	Φ	10,100
St	Steel Weight (lb) =	13448	Granular (m3) =	7	Excavation (m3) =	480	Backfill (m3) =	473								
	Haul	10770	Foundation Haul	each	24				\$ 2,471.35 \$	59,312.51	24 \$	2,471.35				
	Excavate		Found Excavation	each	24		6.33	T	\$ 7,244.73 \$	173,873.63	24 \$	7,244.73				
	nstall		Grillage Installation	each	24		6.98	\$ 1,002.72		167,903.41	24 \$	6,995.98				
Ва	Backfill & Compact		Backfill and Compact	each	24	21	6.33	\$ 959.25	\$ 6,076.00 \$	145,823.97	24 \$	6,076.00				
CI	Cleanup		Site Cleanup	each	24		2.00	\$ 194.96	\$ 389.92 \$	9,358.11	24 \$	389.92				
				each	24				\$ - \$		24 \$	-				
				each	24			-	\$ - \$	-	24 \$	-				
				Cacii												
) S1	51-C20 Uplift testing per leg for Types C	:1-1, or D2-1, or E1-	1 (100 kPa) as per	each Total struc	24	6	EA	\$ -	\$ - \$ \$ 23,177.98 \$	- 556,271.64 -	24 \$	23,177.98	; -	\$ -	\$	
) S 1	61-C20 Uplift testing per leg for Types C1-1	: 1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total structical specification	24 Cture count: ation for Tower Typ	6 pes C1, or D2, or			\$ 23,177.98 \$	556,271.64 -	\$	23,177.98		\$ -	\$	
o si	S1-C20 Uplift testing per leg for Types C- S1-C20 Uplift testing per leg for Types C1-1	: 1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total structical specifications	cture count: ation for Tower Tyl	6 pes C1, or D2, or		\$ -	\$ 23,177.98 \$ \$ \$	556,271.64 - -	\$ \$ 6 \$	23,177.98	; -	\$ -	\$	
) S 1	61-C20 Uplift testing per leg for Types C1-1	: 1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total struc ical specifica each each	cture count: ation for Tower Tyl	6 pes C1, or D2, or		\$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64 - - -	\$ \$ 6 \$ 6 \$	23,177.98	; -	\$ -	\$	
S1 S1	61-C20 Uplift testing per leg for Types C1-1	: 1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	Total structical specifical specifical each each each	cture count: ation for Tower Tyl	6 pes C1, or D2, or		\$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64 - - - -	\$ \$ 6 \$ 6 \$ 6 \$	23,177.98	; -	\$ -	\$	
) S 3	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total struc ical specifica each each	cture count: ation for Tower Tyl	6 pes C1, or D2, or		\$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64 - - -	\$ \$ 6 \$ 6 \$ 6 \$ 6 \$	23,177.98	· -	\$ -	\$	
) \$3° \$5° \$1° \$1° \$1° \$1° \$1° \$1° \$1° \$1° \$1° \$1	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total structical specification each each each each each	cture count: ation for Tower Tyl	6 pes C1, or D2, or		\$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64 - - - - - -	\$ \$ 6 \$ 6 \$ 6 \$	23,177.98 - \$	-	\$ -	\$	
S1 S	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techn	each Total structical specification each each each each each each each	cture count: ation for Tower Tyl	6 pes C1, or D2, or		\$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64 - - - - - -	\$ \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$	23,177.98	<u>-</u>	\$ -	\$	
S1 S	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techn	each Total structure and specifical specifical specifical specifical each each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or		\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64 - - - - - - -	\$ \$ 6 \$ 7	23,177.98	<u>-</u>	\$ -	\$	
S ¹ S ²	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total structure ach each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or		\$ - \$ - \$ - \$. \$. \$.	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	- \$	<u>-</u>	\$ -	\$	
S1 S	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total structure ach each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98	<u>-</u>	\$ -	\$	
) S 7	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techn	each Total structure ach each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98	-	\$ -	\$	
S S S S S S S S S S S S S S S S S S S	61-C20 Uplift testing per leg for Types C1-1	:1-1, or D2-1, or E1- 1, or D2-1, or E1-1 (1 (100 kPa) as per 100 kPa) as per techni	each Total structure ach each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98	•	\$	\$	
S' No.	61-C20 Uplift testing per leg for Types C1-1 Not included 61-C21 Downward, uplift, and lateral load	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specificate each each each each each each each eac	24 Ceture count: ation for Tower Tyl 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or	E1.	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98		\$ -		
S' No.	61-C20 Uplift testing per leg for Types C1-1 Not included	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specificate each each each each each each each eac	24 Ceture count: ation for Tower Tyl 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or	E1.	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98				
S'	61-C20 Uplift testing per leg for Types C1-1 Not included 61-C21 Downward, uplift, and lateral load	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specificate each each each each each each each eac	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2,	E1.	\$ - \$ - \$ - \$ 5 -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7	23,177.98				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specifical specifical specifical specifical each each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2,	E1.	\$ - \$ - \$ - \$ 5 -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 7 7 8 8	23,177.98				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specifical specifical specifical specifical each each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 tion for Tower Ty	E1.	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 7 7 8 8	23,177.98				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structure each each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower T	E1.	\$ - \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	23,177.98				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structure ach each each each each each each each	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower T	E1.	\$ - \$ - \$ - \$ \$ -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	23,177.98				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structure and the	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower T	E1.	S - S - S - S - S - S - S - S - S - S -	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98 -				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specifical struction specifical specif	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower Ty	E1.	\$ - \$ - \$ - \$ - \$ \$ - \$	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specifical struction specifical struction specifical struction specifical struction specifical struction specifical struction specifical speci	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower Ty	E1.	\$ - \$ - \$ - \$ - \$ \$ - \$	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$	23,177.98 -				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specifical struction specifical struction specifical struction specifical struction specifical spe	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower Ty	E1.	\$ - \$ - \$ \$	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	23,177.98 -				
S'	S1-C20 Uplift testing per leg for Types C1-1 Not included S1-C21 Downward, uplift, and lateral load S1-C21 Downward, uplift, and lateral load te	1, or D2-1, or E1-1 (r Types C1-3, or D2-	each Total structical specifical struction specifical struction specifical struction specifical struction specifical struction specifical struction specifical speci	24 cture count: ation for Tower Typ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 pes C1, or D2, or 6 tion for Tower Ty	E1.	\$ - \$ - \$ \$	\$ 23,177.98 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	556,271.64	\$ \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$	23,177.98 -				



Valard Construction LP

NALCOR 350 kV HVdc Line Con	nstruction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Description			Total	Clew No.	unit	Hoully Nate	Offic Cost	Oubtotal	Office	Unit Cost	Matchais	Waterials	Total Materials
Rock Foundations													
	f Foundation Type A1-2 as per Dwg 50	5573- Total struc	ture count:	253	EA		\$	4,157,954.48		\$ 16,434.60	\$ 1,909.69	\$ 18,344.29	\$ 483,15
	oundation Type A1-2 as per Dwg 505573						*	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		* 10,10110	1,000	¥ 10,0110	,
Pad: 1.9m x 1.9m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (I)		• • •	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
1.66	1778 30.6	56.7	154.3	152.6	4.00	3.0	50.0						
Haul	Foundation Haul	each	253		1.54	\$ 441.04		171,951.65	253				
Excavate	Found Excavation	each	253		2.21	\$ 1,143.70		640,671.51	253				
Prepare Rock Surface	Found Excavation	each	253		2.50	\$ 1,143.70			253				
Rock drill Setup	Rock Foundations	each	253	36	1.00	\$ 920.20		. ,	253				
Install Footing, Form and Pour base	Concrete Foundations	each	253		4.39	\$ 935.63		1,038,498.65	253				
Backfill & Compact	Backfill and Compact	each	253		3.70	\$ 959.2			253				
Cleanup	Site Cleanup	each	253		2.00	\$ 194.90		98,650.09	253				
Heat and Hoard	Concrete Foundations	each	253	24	1.50	\$ 935.63	<u> </u>	355,070.17	253				
		each	253			\$ -	\$ - \$	-	253				
		each	253			\$ -	\$ - \$	-	253				
		each	253			-	\$ - \$	1 157 051 10	253				
							\$ 16,434.60 \$	4,157,954.48		\$ 16,434.60			
S1-C23 Assembly and Installation of	f Foundation Type A2-2 as per Dwg 50	5573- Total etruc	ture count:	125	EA		C	2,355,091.65		\$ 18,840.73	\$ 2,798.41	\$ 21,639.14	\$ 349,80
S1-C23 Assembly and Installation of Fe	Foundation Type A2-2 as per Dwg 505573	3_/1622_//2DD_007/	for Tower Type A				· ·	2,333,031.03		φ 10,040.73	Ψ 2,130.41	Ψ 21,039.14	φ 543,00
Pad: 2.3m x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)			BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
		rtcbai (kg)											
2 43	2107 100 1	75.8	168 N	165.6	4.00	5.0	70.0						
2.43	2107 100.1	75.8	168.0	165.6 17	4.00	5.0	70.0	81 483 83	125	\$ 651.87]		
Haul	Foundation Haul	each	125	17	1.48	\$ 441.04	\$ 651.87 \$	81,483.83 338,396,62	125 125				
Haul Excavate	Foundation Haul Found Excavation	each each	125 125	17 19	1.48 2.37	\$ 441.04 \$ 1,143.7	\$ 651.87 \$ \$ 2,707.17 \$	338,396.62	125	\$ 2,707.17			
Haul Excavate Prepare Rock Surface	Foundation Haul Found Excavation Found Excavation	each each each	125 125 125	17 19 19	1.48 2.37 3.50	\$ 441.04 \$ 1,143.70 \$ 1,143.70	\$ 651.87 \$ 5 \$ 2,707.17 \$ 4,003.16 \$	338,396.62 500,394.80	125 125	\$ 2,707.17 \$ 4,003.16			
Haul Excavate Prepare Rock Surface Rock drill Setup	Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each	125 125 125 125	17 19 19 36	1.48 2.37 3.50 1.00	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2	\$ 651.87 \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$	338,396.62 500,394.80 115,025.47	125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each	125 125 125 125 125 125	17 19 19 36	1.48 2.37 3.50	\$ 441.04 \$ 1,143.70 \$ 1,143.70	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$	338,396.62 500,394.80 115,025.47 635,198.46	125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59			
Haul Excavate Prepare Rock Surface Rock drill Setup	Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each each	125 125 125 125 125 125 125	17 19 19 36 24 21	1.48 2.37 3.50 1.00 5.43	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37	125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each	125 125 125 125 125 125 125 125	17 19 19 36 24 21	1.48 2.37 3.50 1.00 5.43 3.84	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ \$ 3,683.38 \$ \$ \$ 389.92 \$	338,396.62 500,394.80 115,025.47 635,198.46	125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each	125 125 125 125 125 125 125	17 19 19 36 24 21	1.48 2.37 3.50 1.00 5.43 3.84 2.00	\$ 441.04 \$ 1,143.74 \$ 1,143.74 \$ 920.24 \$ 935.66 \$ 959.24 \$ 194.96	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ \$ 389.92 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16	125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24	1.48 2.37 3.50 1.00 5.43 3.84 2.00	\$ 441.04 \$ 1,143.74 \$ 1,143.74 \$ 920.24 \$ 935.66 \$ 959.24 \$ 194.96	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ -			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24	1.48 2.37 3.50 1.00 5.43 3.84 2.00	\$ 441.04 \$ 1,143.74 \$ 1,143.74 \$ 920.24 \$ 935.66 \$ 959.24 \$ 194.96	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ \$ - \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24	1.48 2.37 3.50 1.00 5.43 3.84 2.00	\$ 441.04 \$ 1,143.74 \$ 1,143.74 \$ 920.24 \$ 935.66 \$ 959.24 \$ 194.96	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ \$ - \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24	1.48 2.37 3.50 1.00 5.43 3.84 2.00	\$ 441.04 \$ 1,143.74 \$ 1,143.74 \$ 920.24 \$ 935.66 \$ 959.24 \$ 194.96	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24	1.48 2.37 3.50 1.00 5.43 3.84 2.00	\$ 441.04 \$ 1,143.74 \$ 1,143.74 \$ 920.24 \$ 935.66 \$ 959.24 \$ 194.96	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fo	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505575	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24	1.48 2.37 3.50 1.00 5.43 3.84 2.00 1.50	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ -	\$ 651.87 \$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ 18,840.73 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 18,840.73	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Form the set of Pad: 1.9m x 1.9m x 0.4m Concrete (m3) =	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (Ib) Grout (I)	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3)	1.48 2.37 3.50 1.00 5.43 3.84 2.00 1.50 EA	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ -	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ - \$ \$ \$ 18,840.73 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 18,840.73	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Form to the set of the set o	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505575	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3)	1.48 2.37 3.50 1.00 5.43 3.84 2.00 1.50 EA #Anchor Holes 4.00	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ -	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 18,840.73 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 - - 2,355,091.65 115,042.22	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 18,840.73	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Form the set of Pad: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (Ib) Grout (I)	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 24 3 BackFill Vol(m3) 152.6 17	1.48 2.37 3.50 1.00 5.43 3.84 2.00 1.50 EA #Anchor Holes 4.00 1.54	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ -	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 18,840.73 \$ \$ Hole Dia. (mm)	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 - - 2,355,091.65 115,042.22	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 679.65	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Form to the set of the set o	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (Ib) Grout (I) 1778 30.6 Foundation Haul Found Excavation	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17	1.48 2.37 3.50 1.00 5.43 3.84 2.00 1.50 EA #Anchor Holes 4.00 1.54 2.21	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 18,840.73 \$ \$ \$ Hole Dia. (mm) \$ 50.0 \$ \$ 2,532.30 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 - - 2,355,091.65 115,042.22 4,757.56 17,726.09	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 679.65 \$ 2,532.30	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Form to the set of the set o	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (Ib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19	#Anchor Holes 4.00 1.54 #Anchor Holes 4.00 1.54 2.21 2.50	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 18,840.73 \$ \$ \$ Hole Dia. (mm) \$ 50.0 \$ \$ 2,532.30 \$ \$ \$ 2,859.40 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 - 2,355,091.65 115,042.22 4,757.56 17,726.09 20,015.79	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 679.65 \$ 2,532.30 \$ 2,859.40	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fead: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup	Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (lib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19	#Anchor Holes 4.00 1.54 #Anchor Holes 4.00 1.54 2.21 2.50 1.00	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 18,840.73 \$ \$ \$ Hole Dia. (mm)	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 - - 2,355,091.65 115,042.22 4,757.56 17,726.09 20,015.79 6,441.43	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 679.65 \$ 2,532.30 \$ 2,859.40 \$ 920.20	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fead: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (lb) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19 19	#Anchor Holes 4.00 1.54 #Anchor Holes 4.00 1.54 2.21 2.50 1.00 4.39	\$ 441.0 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ 18,840.73 \$ \$ \$ Hole Dia. (mm)	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 - - 2,355,091.65 115,042.22 4,757.56 17,726.09 20,015.79 6,441.43 28,733.16	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 679.65 \$ 2,532.30 \$ 2,859.40 \$ 920.20 \$ 4,104.74	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fead: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (lib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19 19 36 24 21	#Anchor Holes 4.00 1.54 2.21 2.50 1.00 4.39 3.70	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ - \$ \$ \$ 18,840.73 \$ \$ \$ Hole Dia. (mm) \$ 50.0 \$ \$ 2,532.30 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 4,104.74 \$ \$ \$ 3,544.95 \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 2,532.30 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 3,544.95	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fad: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (ib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19 19 36 24 21 22	#Anchor Holes 4.00 1.54 2.21 2.50 1.00 4.39 3.70 2.00	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 1,143.7	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 2,532.30 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 3,544.95 \$ 389.92	\$ 1,909.69	\$ 18,344.29	\$ 13,36
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fead: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (lib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19 36 24 21 22 24	#Anchor Holes 4.00 1.54 2.21 2.50 1.00 4.39 3.70	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 941.0	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ 2,532.30 \$ \$ 2,859.40 \$ 920.20 \$ \$ 4,104.74 \$ \$ 3,544.95 \$ \$ 3,89.92 \$ \$ 1,403.44 \$ \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 679.65 \$ 2,532.30 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 3,544.95 \$ 389.92 \$ 1,403.44	\$ 1,909.69	\$ 18,344.29	\$ 13,30
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fad: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (ib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19 19 36 24 21 22 24	#Anchor Holes 4.00 1.54 2.21 2.50 1.00 4.39 3.70 2.00	## A41.00 \$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ 2,532.30 \$ \$ 2,532.30 \$ \$ 2,532.30 \$ \$ 2,532.30 \$ \$ 2,532.30 \$ \$ 3,544.95 \$ \$ 3,89.92 \$ \$ 1,403.44 \$ \$ \$ 3,544.95 \$ \$ 3,89.92 \$ \$ 1,403.44 \$ \$ \$ \$ - \$ \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 2,532.30 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 3,544.95 \$ 389.92 \$ 1,403.44	\$ 1,909.69	\$ 18,344.29	\$ 13,36	
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C24 Assembly and Installation of S1-C24 Assembly and Installation of Fad: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Haul Found Excavation Found Excavation Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A3-2 as per Dwg 50 Foundation Type A3-2 as per Dwg 505573 Steel Weight (ib) Grout (I) 1778 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	125 125 125 125 125 125 125 125 125 125	17 19 19 36 24 21 22 24 7 3 BackFill Vol(m3) 152.6 17 19 19 36 24 21 22 24	#Anchor Holes 4.00 1.54 2.21 2.50 1.00 4.39 3.70 2.00	\$ 441.0 \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 941.0	\$ 651.87 \$ \$ 2,707.17 \$ \$ 4,003.16 \$ 920.20 \$ \$ 5,081.59 \$ \$ 3,683.38 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ 2,532.30 \$ \$ 2,859.40 \$ 920.20 \$ \$ 4,104.74 \$ \$ 3,544.95 \$ \$ 3,89.92 \$ \$ 1,403.44 \$ \$	338,396.62 500,394.80 115,025.47 635,198.46 460,422.37 48,740.16 175,429.93 	125 125 125 125 125 125 125 125 125 125	\$ 2,707.17 \$ 4,003.16 \$ 920.20 \$ 5,081.59 \$ 3,683.38 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 18,840.73 \$ 16,434.60 \$ 2,532.30 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 3,544.95 \$ 389.92 \$ 1,403.44 \$ -	\$ 1,909.69	\$ 18,344.29	\$ 13,36



l l	NALCOR 350 kV HVdc Line Cons	struction Front 1 (L	abrador)						Crew Cost							Total Unit Cost		
nent		,	,		Units		Hours per									Manhours and		
	Description				Total	Crew No.	unit		lourly Rate	Unit Cost	Subto	otal	Units	Unit Cost	Materials	Materials	Total Materials	
)E	S1 C2F Assembly and Installation of F	Foundation Type A4	2 oo nor Dwa E0EE7	72 Total struc	turo count:	0	EA				\$	-	9	18,928.94	¢ 2.709.41	\$ 21,727.35	.	
	S1-C25 Assembly and Installation of F S1-C25 Assembly and Installation of Fou						EA				P	-	•	10,920.94	3 2,790.41	\$ 21,121.33	Þ	-
	Pad: 2.3m x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Dept	h (m)	Hole Dia. (mm)								
=	2.43	2107	100.1	75.8	168.0	165.6	4.00	. 10.0 Bopt	5.0	70.0								
Г	Haul		Foundation Haul	each	100.0		1.68	\$	441.04		\$	-	0 9	-				
-	Excavate		Found Excavation	each			2.37	\$	1,143.76	\$ 2,707.17			0 5					
-	Prepare Rock Surface		Found Excavation	each	(3.50	\$	1,143.76	\$ 4.003.16		-	0 9					
_	Rock drill Setup		Rock Foundations	each	(1.00	\$	920.20	\$ 920.20	•		0 9					
Ī	Install Footing, Form and Pour base		Concrete Foundations	each	(5.43	\$	935.63	\$ 5,081.59		-	0 9					
	Backfill & Compact		Backfill and Compact	each	(21	3.84	\$	959.25	\$ 3,683.38	\$	- 1	0.5	-				
F	Cleanup		Site Cleanup	each	(22	2.00	\$	194.96	\$ 389.92	\$	-	0 5					
7	Heat and Hoard		Concrete Foundations	each	(24	1.50	\$	935.63	\$ 1,403.44	\$		0 5					
				each	()		\$	-	\$ -	\$	-	0 5					
				each	()		\$	-	\$ -	\$		0 8					
				each	()		\$	-	\$ -	\$	-	0 5	-				
_				•	•	an				\$ 18,928.94	\$	-						
6 9	S1-C26 Assembly and Installation of F	Foundation Type B1-7	2 as per Dwg 50557	3- Total struc	ture count:	17	EA				\$ 31	15,793.84	(18,576.11	\$ 2,798.41	\$ 21,374.52	\$	47,572
	S1-C26 Assembly and Installation of Fou					31												
Ţ	Pad: 2.3m x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Dept	h (m)	Hole Dia. (mm)								
_	2.43	2107	100.1	75.8	168.0	165.6	4.00		5.0	70.0								
[Haul	•	Foundation Haul	each	17	17	0.88	\$	441.04	\$ 387.25	\$	6,583.17	17 5	387.25				
7	Excavate	•	Found Excavation	each	17	19	2.37	\$	1,143.76	\$ 2,707.17		46,021.94	17 5	2,707.17				
7	Prepare Rock Surface		Found Excavation	each	17	19	3.50	\$	1,143.76	\$ 4,003.16	\$ 6	68,053.69	17 5	4,003.16				
7	Rock drill Setup		Rock Foundations	each	17	36	1.00	\$	920.20	\$ 920.20	\$ 1	15,643.46	17 5	920.20				
	Install Footing, Form and Pour base		Concrete Foundations	each	17	24	5.43	\$	935.63	\$ 5,081.59	\$ 8	86,386.99	17 5	5,081.59				
7	Backfill & Compact		Backfill and Compact	each	17	21	3.84	\$	959. 25	\$ 3,683.38	\$ 6	62,617.44	17 5	3,683.38				
7	Cleanup		Site Cleanup	each	17	22	2.00	\$	194.96	\$ 389.92	\$	6,628.66	17 5	389.92				
7	Heat and Hoard		Concrete Foundations	each	17	24	1.50	\$	9 35.63	\$ 1,403.44	\$ 2	23,858.47	17 5	1,403.44				
Ī					47			¢.					.,,	1,700.77				
Г	ĺ			each	17			Φ		\$	\$	-	17 5					
L	Į			each	17			\$			\$	-	17 S	- -				
Ĺ						7		\$		\$ -			17 5	- -				
ļ				each	17	7		\$		\$ -	\$	-	17 S	- - -				
ţ				each	17			\$		\$ -	\$	-	17 S 17 S 17 S	5 - 5 -				
	S1-C27 Assembly and Installation of F			each each	17 17 sture count:	43	EA	\$		\$ -	\$ \$ \$	-	17 S 17 S 17 S	5 - 5 - 5 - 18,576.11	\$ 2,793.12	\$ 29,247.28	\$	120,104
	S1-C27 Assembly and Installation of F S1-C27 Assembly and Installation of Fou			each each	17 17 sture count:	43	EA	\$		\$ -	\$ \$ \$	- - 15,793.84	17 S 17 S 17 S	5 - 5 - 5 18,576.11	\$ 2,793.12	\$ 29,247.28	\$	120,104
,	S1-C27 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I)	each each 73- Total struc 622-42DD-0026 Rebar (kg)	ture count: for Tower Type Excavation (m3)	43 32 BackFill Vol(m3)	#Anchor Holes	\$ \$		\$ - \$ - \$ 18,576.11	\$ \$ \$	- - 15,793.84	17 S 17 S 17 S	5 - 5 - 5 18,576.11	\$ 2,793.12	\$ 29,247.28	\$	120,104
	S1-C27 Assembly and Installation of Fou	oundation Type B2-2 as	s per Dwg 505573-46	each each 73- Total struc 622-42DD-0026	ture count: for Tower Type Excavation (m3)	43 32 BackFill Vol(m3) 222.2	#Anchor Holes	\$ \$ \$	h (m) 6.0	\$ - \$ - \$ 18,576.11 Hole Dia. (mm) 70.0	\$ \$ \$ 31 \$ 1,13	- 15,793.84 37,528.96	17 S 17 S	5 - 5 - 6 18,576.11 6 26,454.16	\$ 2,793.12	\$ 29,247.28	\$	120,104
<u>:</u> <u>-</u> <u>-</u>	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I)	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each	ture count: for Tower Type Excavation (m3) 224.6	43 32 BackFill Vol(m3) 222.2 3	#Anchor Holes 10.00 2.89	\$ S	6.0 441.04	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96	\$ \$ 31 \$ 1,13	- 15,793.84 37,528.96	17 S 17 S 17 S 18 S	5 - 18,576.11 6 26,454.16 6 1,272.96	\$ 2,793.12	\$ 29,247.28	\$	120,104
; <u>-</u> <u> </u>	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate	oundation Type B2-2 as Steel Weight (lb)	S per Dwg 505573-46 Grout (I) 300.2	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each each	ture count: for Tower Type Excavation (m3) 224.6	43 32 BackFill Vol(m3) 222.2 3 17 3 19	#Anchor Holes 10.00 2.89 3.00	\$ \$	6.0 441.04 1,143.76	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56	\$ \$ 31 \$ 1,13 \$ 5 \$ 14	- 15,793.84 37,528.96 54,737.23 47,342.08	17 S 17 S 17 S 17 S 43 S	5 - 18,576.11 6 26,454.16 6 1,272.96 6 3,426.56	\$ 2,793.12	\$ 29,247.28	\$	120,104
: <u>-</u> - -	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface	oundation Type B2-2 as Steel Weight (lb)	S per Dwg 505573-46 Grout (I) 300.2	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each each each	ture count: for Tower Type Excavation (m3) 224.6	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19	#Anchor Holes 10.00 2.89 3.00 4.50	\$	6.0 441.04 1,143.76 1,143.76	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47	17 S 17 S 17 S 17 S 43 S 43 S 43 S	5 - 5 - 6 18,576.11 6 26,454.16 6 1,272.96 6 3,426.56 6 5,146.92	\$ 2,793.12	\$ 29,247.28	\$	120,104
<u>!</u> [] []	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each each	ture count: for Tower Type Excavation (m3) 224.6 43	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19 8 36	#Anchor Holes 10.00 2.89 3.00 4.50 1.00	\$ \$	6.0 441.04 1,143.76 1,143.76 920.20	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76	17 S 17 S 17 S 17 S 43 S 43 S 43 S 43 S	5 - 18,576.11 5 26,454.16 6 1,272.96 6 3,426.56 6 5,146.92 6 920.20	\$ 2,793.12	\$ 29,247.28	\$	120,104
<u> </u>	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each each each each	ture count: for Tower Type E Excavation (m3) 224.6 43 43 43	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19 3 36 3 24	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27	\$ \$ \$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3 \$ 41	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14	17 S 17 S 17 S 18 43 S 43 S 43 S 43 S 43 S	5 - 5 - 6 18,576.11 5 26,454.16 6 1,272.96 6 3,426.56 6 5,146.92 6 920.20 6 9,607.40	\$ 2,793.12	\$ 29,247.28	\$	120,104
<u> </u>	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each each each each each each	ture count: for Tower Type E Excavation (m3) 224.6 43 43 43	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19 3 36 24 8 21	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27 4.47	\$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40 \$ 4,286.76	\$ 31 \$ 1,13 \$ 1,13 \$ 22 \$ 3 \$ 41 \$ 18	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14 84,330.77	17 S 17 S 17 S 18 43 S 43 S 43 S 43 S 43 S 43 S	5 - 18,576.11 5 26,454.16 5 1,272.96 5 3,426.56 5 5,146.92 6 920.20 7 9,607.40 7 4,286.76	\$ 2,793.12	\$ 29,247.28	\$	120,104
	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each 73- Total struc 622-42DD-0026 Rebar (kg) 163.4 each each each each each each	17 17 17 17 17 17 17 17 17 17 17 17 17 1	43 BackFill Vol(m3) 222.2 3 17 3 19 3 19 3 36 3 24 3 21 3 22	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27 4.47 2.00	\$ \$ \$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40 \$ 4,286.76 \$ 389.92	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3 \$ 41 \$ 18 \$ 1	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14 84,330.77 16,766.62	17 S 17 S 17 S 18 43 S 43 S 43 S 43 S 43 S 43 S 43 S	5 - 18,576.11 5 26,454.16 5 1,272.96 5 3,426.56 5 5,146.92 6 920.20 6 9,607.40 6 4,286.76 6 389.92	\$ 2,793.12	\$ 29,247.28	\$	120,104
: 	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each 73- Total struc 522-42DD-0026 Rebar (kg) 163.4 each each each each each each each	17 17 17 17 17 17 17 17 17 17 17 17 17 1	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 36 3 24 3 21 3 22 3 24	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27 4.47	\$ \$ \$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3 \$ 41 \$ 18 \$ 18	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14 84,330.77	17 S 17 S 17 S 17 S 43 S 43 S 43 S 43 S 43 S 43 S 43 S 43	5 - 18,576.11 5 18,576.11 6 26,454.16 5 1,272.96 5 3,426.56 5 5,146.92 6 920.20 6 9,607.40 6 4,286.76 5 389.92 6 1,403.44	\$ 2,793.12	\$ 29,247.28	\$	120,104
: 	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each 73- Total struct 622-42DD-0026 Rebar (kg) 163.4 each each each each each each each each	17 17 17 17 17 17 17 17 17 17 17 17 17 1	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19 3 36 3 24 3 21 3 22 3 24	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27 4.47 2.00	\$ \$ \$ \$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3 \$ 41 \$ 18 \$ 18 \$ 6	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14 84,330.77 16,766.62	17 S 17 S 17 S 17 S 43 S 43 S 43 S 43 S 43 S 43 S 43 S 43	5 - 18,576.11 5 26,454.16 5 1,272.96 5 3,426.56 5 5,146.92 6 920.20 6 9,607.40 6 4,286.76 6 389.92 7 1,403.44	\$ 2,793.12	\$ 29,247.28	\$	120,104
	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each 73- Total struct 622-42DD-0026 Rebar (kg) 163.4 each each each each each each each each	17 17 17 17 17 17 17 17 17 17 17 17 17 1	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19 3 36 3 24 3 21 3 22 3 24	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27 4.47 2.00	\$ \$ \$ \$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3 \$ 41 \$ 18 \$ 6	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14 84,330.77 16,766.62 60,347.89	17 S 17 S 17 S 17 S 43 S 43 S 43 S 43 S 43 S 43 S 43 S 43	5 - 18,576.11 5 26,454.16 5 1,272.96 5 3,426.56 5 5,146.92 6 9,607.40 6 4,286.76 6 389.92 7 1,403.44 7 - 5	\$ 2,793.12	\$ 29,247.28	\$	120,104.
	S1-C27 Assembly and Installation of Foundaria 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	oundation Type B2-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 300.2 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each 73- Total struct 622-42DD-0026 Rebar (kg) 163.4 each each each each each each each each	17 17 17 17 17 17 17 17 17 17 17 17 17 1	43 32 BackFill Vol(m3) 222.2 3 17 3 19 3 19 3 36 3 24 3 21 3 22 3 24	#Anchor Holes 10.00 2.89 3.00 4.50 1.00 10.27 4.47 2.00	\$ \$ \$ \$ \$	6.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ - \$ 18,576.11 Hole Dia. (mm) 70.0 \$ 1,272.96 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,607.40 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 31 \$ 1,13 \$ 5 \$ 14 \$ 22 \$ 3 \$ 41 \$ 18 \$ 18 \$ 6	- 15,793.84 37,528.96 54,737.23 47,342.08 21,317.47 39,568.76 13,118.14 84,330.77 16,766.62 60,347.89	17 S 17 S 17 S 17 S 43 S 43 S 43 S 43 S 43 S 43 S 43 S 43	5 - 18,576.11 5 26,454.16 5 1,272.96 5 3,426.56 5 5,146.92 6 9,607.40 6 4,286.76 6 389.92 7 1,403.44 7 - 5	\$ 2,793.12	\$ 29,247.28	\$	120,104.



t	IVdc Line Construction	า Front 1 (Lal	orador)					Crew Cost	_					Total Unit Cost		
Description					Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
Boompaon					10141	OICW NO.	unit	riodily reacc	Offit Oost	Gustotai	Office	Offit Oost	Materiale	Materiale	Total Materials	
	d Installation of Foundation					22 A1 (Weak Surface	EA Rock)			\$ 243,921.18		\$ 11,087.33 \$	1,523.52	\$ 12,610.85	\$	33,5
Pad: 1.2m x 1.2m x 0.8m Cor		l Weight (lb)	Grout (I)		Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
1.3	2	153	6.0	34.5	5.0	0.0	1.00	1.8	57.0							
Haul			Foundation Haul	each	2:	2 17	1.06	\$ 441.04	\$ 469.22	\$ 10,322.74	22	\$ 469.22				
Excavate			Found Excavation	each	2:	2 19	0.56	\$ 1,143.76	\$ 635.64	\$ 13,984.18	22	\$ 635.64				
Prepare Rock Surface			Found Excavation	each	2:	2 19	2.50	\$ 1,143.76	\$ 2,859.40	\$ 62,906.78	22	\$ 2,859.40				
Rock drill Setup			Rock Foundations	each	2:	2 36	1.00	\$ 920.20	\$ 920.20	\$ 20,244.48	22	\$ 920.20				
Install Footing, Form a	nd Pour base		Concrete Foundations	each	2:	2 24	2.66	\$ 935.63	\$ 2,491.01	\$ 54,802.25	22	\$ 2,491.01				
Backfill & Compact			Backfill and Compact	each	2:	2 21	2.00	\$ 959.25	\$ 1,918.49	\$ 42,206.82	22	\$ 1,918.49				
Cleanup			Site Cleanup	each	2:		2.00	\$ 194.96	\$ 389.92		22					
Heat and Hoard			Concrete Foundations	each	2:		1.50	\$ 935.63	\$ 1,403.44	\$ 30,875.67	22					
				each	2:			-	\$ -		22					
				each	2:			-	\$ -	\$ -	22	т				
				each	2:	2		-	\$ -		22	•				
									\$ 11,087.33	\$ 243,921.18		\$ 11,087.33				
	d Installation of Foundation					11	EA			\$ 127,021.73		\$ 11,547.43 \$	2,541.85	\$ 14,089.27	\$	27,9
,	Installation of Foundation	,,	· ·		,,	`	,									
Pad: 1.55m x 1.55m x 0.8m (\ /		Grout (I)	, ,	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes		Hole Dia. (mm)							
2.2	1	304	6.0	49.8	6.4	0.0	1.00	1.8	57.0							
Haul			Foundation Haul	each	1		1.13	\$ 441.04	1 2 2	·						
Excavate			Found Excavation	each	1		0.57	\$ 1,143.76	\$ 653.83		11					
Prepare Rock Surface			Found Excavation	each	1		2.50	\$ 1,143.76	\$ 2,859.40							
Rock drill Setup			Rock Foundations	each	1:		1.00	Ψ 520.20	\$ 920.20		11	•				
Install Footing, Form at	10 Pour base		Concrete Foundations	each	1		3.11	\$ 935.63	\$ 2,905.26	. ,	11	,				
Backfill & Compact			Backfill and Compact	each	1 ⁻		2.00	\$ 959.25	\$ 1,918.49 \$ 389.92	. ,	11					
Cleanup			Site Cleanup	each			2.00	\$ 194.96	000.02	\$ 4,289.13 \$ 15.437.83	11 11					
Heat and Hoard			Concrete Foundations	each	1		1.50	\$ 935.63		, .,		,				
				each each	1 ⁻			-	T	*	11 11					
								Φ -	Ψ	Ψ						
				each	1	1		-	\$ - ! \$ 11,547.43	Ψ	11	т				
									Φ 11,047.43	\$ 127,021.73		\$ 11,547.43				
							EA			\$ 11,325.92		\$ 11,325.92 \$	2,073.68	\$ 13,399.60	■ ¢	2.0
C4 C20 Assembly and	l Installation of Foundation	on Time 42.2	D	72 Total atrust	ura acumé	4						D 11,323.92 D	2,073.00	р 13,399.00	Ф	2,0
	d Installation of Foundation					1				Ψ 11,020.02						
S1-C30 Assembly and	Installation of Foundation	Type A3-2 as p	per Dwg 505573-46	622-42DD-0058	for Tower Type		Rock)	Hole Depth (m)		Ψ 11,020.02		·				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor	Installation of Foundation on the contract (m3) = Steel	Type A3-2 as p	per Dwg 505573-46 Grout (I)	622-42DD-0058 Rebar (kg)	for Tower Type A Excavation (m3)	BackFill Vol(m3)	Rock) #Anchor Holes	1 (/	Hole Dia. (mm)	11,020.02		·				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8	Installation of Foundation on the contract (m3) = Steel	Type A3-2 as p	per Dwg 505573-46 Grout (I) 6.0	622-42DD-0058 Rebar (kg) 36.1	for Tower Type	BackFill Vol(m3) 0.0	#Anchor Holes	1.8	Hole Dia. (mm) 57.0	,		\$ 473.00				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul	Installation of Foundation on the contract (m3) = Steel	Type A3-2 as p el Weight (lb) 179	Der Dwg 505573-46 Grout (I) 6.0 Foundation Haul	622-42DD-0058 Rebar (kg) 36.1 each	for Tower Type A Excavation (m3)	BackFill Vol(m3) 0.0 1 17	#Anchor Holes 1.00 1.07	1.8	Hole Dia. (mm) 57.0 \$ 473.90	\$ 473.90	1	•				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate	Installation of Foundation nerete (m3) = Steel	Type A3-2 as p el Weight (lb) 179	per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation	822-42DD-0058 Rebar (kg) 36.1 each each	for Tower Type A Excavation (m3)	BackFill Vol(m3) 0.0 1 17 1 19	#Anchor Holes 1.00 1.07 0.56	1.8 \$ 441.04 \$ 1,143.76	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75	\$ 473.90 \$ 645.75	1 1	\$ 645.75				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface	Installation of Foundation nerete (m3) = Steel	Type A3-2 as p el Weight (lb) 179	per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation	36.1 each each each	for Tower Type A Excavation (m3)	BackFill Vol(m3) 0.0 1 17 1 19 1 19	#Anchor Holes 1.00 1.07 0.56 2.50	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40	\$ 473.90 \$ 645.75 \$ 2,859.40	1 1 1	\$ 645.75 \$ 2,859.40				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	322-42DD-0058 Rebar (kg) 36.1 each each each each	for Tower Type A Excavation (m3)	0.0 1 17 1 19 1 19 1 36	#Anchor Holes 1.00 1.07 0.56 2.50 1.00	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20	1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form al	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	322-42DD-0058 Rebar (kg) 36.1 each each each each each	for Tower Type A Excavation (m3)	BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24	#Anchor Holes 1.00 1.07 0.56 2.50 1.00 2.90	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81	1 1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form at Backfill & Compact	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	Deer Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	322-42DD-0058 Rebar (kg) 36.1 each each each each each each each	for Tower Type A Excavation (m3)	BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21	#Anchor Holes 1.00 1.07 0.56 2.50 1.00 2.90 2.00	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49	1 1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form at Backfill & Compact Cleanup	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	Deer Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	S22-42DD-0058 Rebar (kg) 36.1 each each each each each each each each	for Tower Type Excavation (m3) 5.8	BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 1 22	#Anchor Holes 1.00 1.07 0.56 2.50 1.00 2.90 2.00	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92	1 1 1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form at Backfill & Compact	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	Deer Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	S22-42DD-0058 Rebar (kg) 36.1 each each each each each each each each	for Tower Type Excavation (m3) 5.8	BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 1 22 1 24	#Anchor Holes 1.00 1.07 0.56 2.50 1.00 2.90 2.00	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44	1 1 1 1 1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form at Backfill & Compact Cleanup	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	Deer Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	S22-42DD-0058 Rebar (kg) 36.1 each each each each each each each each	for Tower Type Excavation (m3) 5.8	BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 1 22 1 24	#Anchor Holes 1.00 1.07 0.56 2.50 1.00 2.90 2.00	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44	1 1 1 1 1 1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -				
S1-C30 Assembly and Pad: 1.4m x 1.4m x 0.8m Cor 1.8 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form at Backfill & Compact Cleanup	Installation of Foundation on Steel (m3) = Steel (m3)	Type A3-2 as p el Weight (lb) 179	Deer Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	S22-42DD-0058 Rebar (kg) 36.1 each each each each each each each each	for Tower Type Excavation (m3) 5.8	BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 1 22 1 24	#Anchor Holes 1.00 1.07 0.56 2.50 1.00 2.90 2.00	1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	Hole Dia. (mm) 57.0 \$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -	\$ 473.90 \$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -	1 1 1 1 1 1 1 1	\$ 645.75 \$ 2,859.40 \$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -				



Description		uction Front 1 (La	.abrador)					Crew Cost						Total Unit Cost	
					Units Total	Crow No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Description					IUIAI	Crew No.	unit	Hourly Rate	Unit Cost	Subibiai	OHIIIS	Unit Cost	เงเลเซเเลเจ	ivialeriais	Total Waterials
S1-C31 Assem	mbly and Installation of Fou	undation Type A4-	2 as ner Dwg 5055	73- Total struc	ture count:	0	EA		\$	-		\$ 11,547.43 \$	2,541.85	\$ 14,089.27	\$
	nbly and Installation of Found								•			Ψ 11,041.40 Ψ	2,041.00	Ψ 14,003.27	•
	5m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)	BackFill Vol(m3)	,	Hole Depth (m)	Hole Dia. (mm)						
1 44. 1.00 x 1.00.	2.21	304	6.0	49.8	6.4	0.0	1.00	1.8	57.0						
Haul	2.21		Foundation Haul	each	1 (1.13	\$ 441.04			0	\$ -			
Excavate			Foundation Haul	each	(0.57	\$ 1,143.76	\$ 653.83 \$		0				
Prepare Rock S	Surface		Found Excavation	each			2.50	\$ 1,143.76	\$ 2,859.40 \$	-	0				
Rock drill Setu			Rock Foundations	each			1.00	\$ 920.20	\$ 920.20 \$		0				
	, Form and Pour base		Concrete Foundations	each	(3.11	\$ 935.63	\$ 2,905.26 \$		0				
Backfill & Com	*		Backfill and Compact	each	(2.00	\$ 959.25	\$ 1,918.49 \$		0	_			
Cleanup	ipaci		Site Cleanup	each			2.00	\$ 194.96	\$ 389.92 \$		0				
Heat and Hoar	rd		Concrete Foundations	each			1.50	\$ 935.63	\$ 1,403.44 \$		0				
ricat and rican	iu		Concrete Foundations	each			1.50	φ 933.03 •	\$ 1,403.44 \$		0				
				each				- · · · · · · · · · · · · · · · · · · ·	\$ - \$		0				
				each				- · · · · · · · · · · · · · · · · · · ·	\$ - \$		0				
				Cacii				4	\$ 11,547.43 \$			\$ -			
									Ψ 11,547.45 Ψ	-	_	Ψ -			
C1 C22 Acces	mbly and Installation of Fou	undation Type D1 '	2 aa nar Dwa E0EE	72 Total atrus		3	EA		•	34,854.49		\$ 11,618.16 \$	2,708.48	\$ 14,326.64	\$
									a a	34,034.49		φ 11,010.10 φ	2,700.40	\$ 14,320.04	Þ
	nbly and Installation of Found	• • •			• • • • • • • • • • • • • • • • • • • •	•		Hala Davilla (m)	Uala Dia (mm)						
Pad: 1.6m x 1.6m x	x 0.8m Concrete (m3) = 2.36	Steel Weight (lb)	Grout (I)	, ,	Excavation (m3)	BackFill Vol(m3)		Hole Depth (m)	Hole Dia. (mm)						
Hand	2.30	305	6.0	50.2	6.7	0.0	1.00	1.8	57.0	4 404 45	0	Φ 407.05			
Haul			Foundation Haul	each	3		1.13				3				
Excavate Prepare Rock S	Curfoso		Found Excavation	each			0.57 2.50	Ψ 1,110.10			3				
			Found Excavation	each	3			Ψ 1,1101,0							
Rock drill Setu			Rock Foundations	each		00	1.00	Ψ 020.20	\$ 920.20 \$		3				
	, Form and Pour base		Concrete Foundations	each		3 24	3.18 2.00	\$ 935.63 \$ 959.25	\$ 2,973.05 \$ 1,918.49 \$		3				
Backfill & Com	праст		Backfill and Compact	each	1				1 9 1 8 4 9 1 8		1 31	5 1.918.49 I			
O.					1										
Cleanup			Site Cleanup	each	3	22	2.00	\$ 194.96	\$ 389.92 \$	1,169.76	3	\$ 389.92			
Cleanup Heat and Hoard	rd		Site Cleanup Concrete Foundations	each	3	3 22 3 24		\$ 194.96 \$ 93 5.63	\$ 389.92 \$ \$ 1,403.44 \$	1,169.76 4,210.32	3	\$ 389.92 \$ 1,403.44			
	rd			each each	3	22 24 24	2.00	\$ 194.96	\$ 389.92 \$ 1,403.44 \$ \$ - \$	1,169.76 4,210.32 -	3 3 3	\$ 389.92 \$ 1,403.44 \$ -			
	rd			each each each	3	3 22 3 24 3 3	2.00	\$ 194.96 \$ 93 5.63	\$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$	1,169.76 4,210.32 - -	3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ -			
	rd			each each	3	3 22 3 24 3 3	2.00	\$ 194.96 \$ 93 5.63	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - -	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ -			
	rd			each each each	3	3 22 3 24 3 3	2.00	\$ 194.96 \$ 93 5.63	\$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$	1,169.76 4,210.32 - - -	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ -			
Heat and Hoard			Concrete Foundations	each each each each	3	3 22 3 24 3 3	2.00 1.50	\$ 194.96 \$ 93 5.63	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - - 34,854.49	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 11,618.16			
Heat and Hoan	mbly and Installation of Fou		Concrete Foundations 2 as per Dwg 5055	each each each each 73- Total struc	ture count:	22 24 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2.00 1.50	\$ 194.96 \$ 93 5.63	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - - 34,854.49	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ -	1,523.52	\$ 11,472.18	\$ 29
Heat and Hoan S1-C33 Assem S1-C33 Assem	mbly and Installation of Found	dation Type A1-2 as	Concrete Foundations 2 as per Dwg 505573-4	each each each each 73- Total struct 622-42DD-0058	ture count:	22 3 24 8 3 8 3 8 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.00 1.50	\$ 194.96 \$ 935.63 \$ - \$ -	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - - 34,854.49	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 11,618.16	1,523.52	\$ 11,472.18	\$ 29
Heat and Hoan S1-C33 Assem S1-C33 Assem	mbly and Installation of Found nbly and Installation of Found x 0.8m Concrete (m3) =	dation Type A1-2 as Steel Weight (lb)	2 as per Dwg 5055's per Dwg 505573-4 Grout (I)	each each each each 73- Total struct 622-42DD-0058 Rebar (kg)	ture count: for Tower Type / Excavation (m3)	3 22 3 24 3 3 3 3 3 4 191 A1 (Sound Surface BackFill Vol(m3)	EA e Rock) #Anchor Holes	\$ 194.96 \$ 935.63 \$ - \$ - Hole Depth (m)	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - - 34,854.49	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 11,618.16	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Assem S1-C33 Assem Pad: 1.2m x 1.2m x	mbly and Installation of Found	dation Type A1-2 as	2 as per Dwg 5055's per Dwg 505573-4 Grout (I) 6.0	each each each each 73- Total struct 622-42DD-0058 Rebar (kg) 47.1	ture count: for Tower Type / Excavation (m3) 5.0	3 22 3 24 3 3 3 3 3 3 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	EA e Rock) #Anchor Holes 1.00	\$ 194.96 \$ 935.63 \$ - \$ - Hole Depth (m) 1.8	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - 34,854.49 1,900,193.14	3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Assem S1-C33 Assem Pad: 1.2m x 1.2m x	mbly and Installation of Found nbly and Installation of Found x 0.8m Concrete (m3) =	dation Type A1-2 as Steel Weight (lb)	2 as per Dwg 5055's per Dwg 505573-4 Grout (I)	each each each each 73- Total struct 622-42DD-0058 Rebar (kg) 47.1 each	ture count: for Tower Type / Excavation (m3) 5.0	3 22 3 24 3 3 3 3 3 3 3 4 191 A1 (Sound Surface BackFill Vol(m3) 0.0	EA e Rock) #Anchor Holes 1.00 1.08	\$ 194.96 \$ 935.63 \$ - \$ - \$ - Hole Depth (m) 1.8	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - 34,854.49 1,900,193.14	3 3 3 3 3 3	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Assem S1-C33 Assem Pad: 1.2m x 1.2m x	mbly and Installation of Found x 0.8m Concrete (m3) = 1.32	dation Type A1-2 as Steel Weight (lb)	2 as per Dwg 5055's per Dwg 505573-4 Grout (I) 6.0	each each each each 73- Total struct 622-42DD-0058 Rebar (kg) 47.1 each each	ture count: for Tower Type A Excavation (m3) 5.0	3 22 3 24 3 3 3 3 3 3 3 4 191 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 19	EA e Rock) #Anchor Holes 1.00 1.08 0.56	\$ 194.96 \$ 935.63 \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - 34,854.49 1,900,193.14 90,592.06 121,408.08	3 3 3 3 3 3 1 191 191	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 1,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Asser S1-C33 Asser S1-C33 Asser Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S	mbly and Installation of Found x 0.8m Concrete (m3) = 1.32	dation Type A1-2 as Steel Weight (lb)	2 as per Dwg 5055's per Dwg 505573-4 Grout (I) 6.0 Foundation Haul	each each each each 73- Total struct 622-42DD-0058 Rebar (kg) 47.1 each each each	ture count: for Tower Type A Excavation (m3) 5.0 191 191	3 22 3 24 3 3 3 3 3 3 3 4 41 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19	EA e Rock) #Anchor Holes 1.00 1.08 0.56 1.50	\$ 194.96 \$ 935.63 \$ - \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32 - - - 34,854.49 1,900,193.14 90,592.06 121,408.08 327,687.11	3 3 3 3 3 3 3 1 191 191 191	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Assem S1-C33 Assem Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setul	mbly and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface	dation Type A1-2 as Steel Weight (lb)	2 as per Dwg 5055's per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation	each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each	ture count: for Tower Type A Excavation (m3) 5.0 191 191 191	3 22 3 24 3 3 3 3 3 3 3 4 191 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36	EA e Rock) #Anchor Holes 1.00 1.08 0.56 1.50 1.00	\$ 194.96 \$ 935.63 \$ - \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ \$. \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$. \$. \$ \$.	1,169.76 4,210.32 - - 34,854.49 1,900,193.14 90,592.06 121,408.08 327,687.11 175,758.92	3 3 3 3 3 3 3 1 191 191 191 191	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Assert S1-C33 Assert S1-C33 Assert Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setul Install Footing,	mbly and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface Ip , Form and Pour base	dation Type A1-2 as Steel Weight (lb)	2 as per Dwg 5055's per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation	each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each	ture count: for Tower Type A Excavation (m3) 5.0 191 191 191	3 22 3 24 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA e Rock) #Anchor Holes 1.00 1.50 1.08 0.56 1.50 1.00 2.66	\$ 194.96 \$ 935.63 \$ - \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$. \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$ \$	1,169.76 4,210.32 - - - 34,854.49 1,900,193.14 90,592.06 121,408.08 327,687.11 175,758.92 475,783.17	3 3 3 3 3 3 3 3 1 191 191 191 191 191	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20 \$ 2,491.01	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Assem S1-C33 Assem Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setul	mbly and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface Ip , Form and Pour base	dation Type A1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 5055's per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each each	ture count: for Tower Type A Excavation (m3) 5.0 191 191 191 191 191	3 22 3 24 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA e Rock) #Anchor Holes 1.00 1.50 1.08 0.56 1.50 1.00 2.66 2.00	# 194.96	\$ 389.92 \$ 1,403.44 \$ \$ - \$	1,169.76 4,210.32 - - - 34,854.49 1,900,193.14 90,592.06 121,408.08 327,687.11 175,758.92 475,783.17 366,431.91	3 3 3 3 3 3 3 3 3 1 191 191 191 191 191	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20 \$ 2,491.01 \$ 1,918.49	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Asser S1-C33 Asser S1-C33 Asser Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setu Install Footing, Backfill & Com Cleanup	mbly and Installation of Found not and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface IP Form and Pour base inpact	dation Type A1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each each each each	ture count: for Tower Type / Excavation (m3) 5.0 191 191 191 191 191	3 22 3 24 3 3 3 3 3 3 3 3 3 3 4 1 191 4 19 19 19 19 19 19 19 19 19 19 19 19 19	EA e Rock) #Anchor Holes 1.00 1.50 1.08 0.56 1.50 1.00 2.66 2.00 2.00	\$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 389.92 \$ 1,403.44 \$ \$ - \$	1,169.76 4,210.32	3 3 3 3 3 3 3 3 3 3 1 191 191 191 191 19	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20 \$ 2,491.01 \$ 1,918.49 \$ 389.92	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Asserr S1-C33 Asserr S1-C33 Asserr Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setul Install Footing, Backfill & Com	mbly and Installation of Found not and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface IP Form and Pour base inpact	dation Type A1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	ture count: for Tower Type / Excavation (m3) 5.0 191 191 194 197 197 197 197 197	3 22 3 24 3 3 3 3 3 3 3 3 3 3 4 191 4 1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 1 22	EA e Rock) #Anchor Holes 1.00 1.50 1.08 0.56 1.50 1.00 2.66 2.00	# 194.96	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ 11,618.16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32	3 3 3 3 3 3 3 3 3 3 1 191 191 191 191 19	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20 \$ 2,491.01 \$ 1,918.49 \$ 389.92 \$ 1,403.44	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Asser S1-C33 Asser S1-C33 Asser Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setu Install Footing, Backfill & Com Cleanup	mbly and Installation of Found not and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface IP Form and Pour base inpact	dation Type A1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 5055* s per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each each each each	ture count: for Tower Type A Excavation (m3) 5.0 197 197 197 199 199 199 199	3 22 3 24 3 3 3 3 3 3 3 3 3 3 4 191 4 1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 22 24	EA e Rock) #Anchor Holes 1.00 1.50 1.08 0.56 1.50 1.00 2.66 2.00 2.00	\$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 389.92 \$ 1,403.44 \$ \$ - \$	1,169.76 4,210.32	3 3 3 3 3 3 3 3 3 3 3 3 1 191 191 191 19	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20 \$ 2,491.01 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -	1,523.52	\$ 11,472.18	\$ 29
S1-C33 Asser S1-C33 Asser S1-C33 Asser Pad: 1.2m x 1.2m x Haul Excavate Prepare Rock S Rock drill Setu Install Footing, Backfill & Com Cleanup	mbly and Installation of Found not and Installation of Found x 0.8m Concrete (m3) = 1.32 Surface IP Form and Pour base inpact	dation Type A1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 5055* s per Dwg 505573-4 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each 73- Total struc 622-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	ture count: for Tower Type / Excavation (m3) 5.0 191 191 194 197 197 197 197 197	3 22 3 24 3 3 3 3 3 3 3 3 3 3 4 191 4 1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 2 24	EA e Rock) #Anchor Holes 1.00 1.50 1.08 0.56 1.50 1.00 2.66 2.00 2.00	\$ 194.96 \$ 935.63 \$ - \$ - \$ - Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 389.92 \$ 1,403.44 \$ \$ - \$ \$ \$ 11,618.16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,169.76 4,210.32	3 3 3 3 3 3 3 3 3 3 1 191 191 191 191 19	\$ 389.92 \$ 1,403.44 \$ - \$ - \$ 11,618.16 \$ 9,948.66 \$ \$ 474.30 \$ 635.64 \$ 1,715.64 \$ 920.20 \$ 2,491.01 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -	1,523.52	\$ 11,472.18	\$ 29



nt Description	ruction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
Description			Units		Hours per							Manhours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
		. .									• • • • • • • • • • • • • • • • • • • •		•
S1-C34 Assembly and Installation of Four				94	EA		\$	978,423.33		\$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$ 238,9
S1-C34 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) =	Steel Weight (lb) Grout (l)			AZ (Sound Suriace BackFill Vol(m3)	#Anchor Holes	Hala Donth (m)	Hole Dia. (mm)	A					
2.21	332 6.0	62.4	6.4	0.0	1.00	1.8	57.0						
Haul	Foundation Haul	each	94		1.14	\$ 441.04		47,185.94	94	\$ 501.98			
Excavate	Found Excavation	each	94		0.57	\$ 1,143.76		61,459.59	94				
Prepare Rock Surface	Found Excavation	each	94		1.50	\$ 1.143.76		161,270.10	94				
Rock drill Setup	Rock Foundations	each	94		1.00	\$ 920.20	, , , , ,	86,499.15	94				
Install Footing, Form and Pour base	Concrete Foundations	each	94		3.11	\$ 935.63		273,094.43	94				
Backfill & Compact	Backfill and Compact	each	94	21	2.00	\$ 959.25		180,338.22	94				
Cleanup	Site Cleanup	each	94	22	2.00	\$ 194.96	\$ 389.92 \$	36,652.60	94				
Heat and Hoard	Concrete Foundations	each	94	24	1.50	\$ 935.63	\$ 1,403.44 \$	131,923.30	94	\$ 1,403.44			
		each	94	l e		\$ -	\$ - \$	-	94	\$ -			
		each	94	l e		\$ -	\$ - \$		94	\$ -			
		each	94	ļ.		\$ -	\$ - \$	-	94	\$ -			
							\$ 10,408.76 \$	978,423.33		\$ 10,408.76			
S1-C35 Assembly and Installation of For	oundation Type A3-2 as per Dwg 50557?	3- Total struct	ture count:	6	EA		\$	61,123.49		\$ 10,187.25	\$ 2,073.68	\$ 12,260.93	\$ 12,4
S1-C35 Assembly and Installation of Found	ıdation Type A3-2 as per Dwg 505573-462			A3 (Sound Surface	e Rock)								
Pad: 1.4m x 1.4m x 0.8m Concrete (m3) =	Steel Weight (lb) Grout (l)		. ,	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)	*					
1.80	207 6.0	48.7	5.8	0.0	1.00	1.8	57.0						
Haul	Foundation Haul	each	6		1.09	\$ 441.04	1 1	2,873.95	6	•			
Excavate	Found Excavation	each	6		0.56	\$ 1,143.76		3,874.49	6				
Prepare Rock Surface	Found Excavation	each	6	19	1.50	\$ 1.143.76	\$ 1,715.64 \$						
Rock drill Setup			_		/	, , , ,		10,293.84	6				
	Rock Foundations	each	6	00	1.00	\$ 920.20	\$ 920.20 \$	5,521.22	6	\$ 920.20			
Install Footing, Form and Pour base	Concrete Foundations	each	6	24	1.00 2.90	\$ 920.20 \$ 935.63	\$ 920.20 \$ \$ 2,714.81 \$	5,521.22 16,288.88	6	\$ 920.20 \$ 2,714.81			
Install Footing, Form and Pour base Backfill & Compact	Concrete Foundations Backfill and Compact	each each	6	24 21	1.00 2.90 2.00	\$ 920.20 \$ 935.63 \$ 959.25	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$	5,521.22 16,288.88 11,510.95	6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49			
Install Footing, Form and Pour base Backfill & Compact Cleanup	Concrete Foundations Backfill and Compact Site Cleanup	each each each	6	24 6 21 22	1.00 2.90 2.00 2.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$	5,521.22 16,288.88 11,510.95 2,339.53	6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92			
Install Footing, Form and Pour base Backfill & Compact	Concrete Foundations Backfill and Compact	each each each each	6	24 6 21 5 22 24	1.00 2.90 2.00	\$ 920.20 \$ 935.63 \$ 959.25	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64	6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44			
Install Footing, Form and Pour base Backfill & Compact Cleanup	Concrete Foundations Backfill and Compact Site Cleanup	each each each each each	6	24 21 22 22 24	1.00 2.90 2.00 2.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ \$ - \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64	6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ -			
Install Footing, Form and Pour base Backfill & Compact Cleanup	Concrete Foundations Backfill and Compact Site Cleanup	each each each each each	6	24 21 22 22 24	1.00 2.90 2.00 2.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64	6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Install Footing, Form and Pour base Backfill & Compact Cleanup	Concrete Foundations Backfill and Compact Site Cleanup	each each each each each	6	24 21 22 22 24	1.00 2.90 2.00 2.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ - \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Install Footing, Form and Pour base Backfill & Compact Cleanup	Concrete Foundations Backfill and Compact Site Cleanup	each each each each each	6	24 21 22 22 24	1.00 2.90 2.00 2.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	66	24 21 22 22 24	1.00 2.90 2.00 2.00 1.50	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 10,187.25 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - - 61,123.49	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 10,187.25	¢ 2544.95	\$ 42,050,00	ę.
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Form	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Dundation Type A4-2 as per Dwg 505573	each each each each each each each each	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	24 21 22 24 24	1.00 2.90 2.00 2.00 1.50	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ - \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Founds S1-C36 Assembly and Installation of Founds	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Dundation Type A4-2 as per Dwg 505573 and action Type A4-2 as per Dwg 505573-462	each each each each each each each each	ture count:	24 21 22 24 24 0 0 0 0 Surface	1.00 2.90 2.00 2.00 1.50	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - - 61,123.49	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 10,187.25	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) =	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Dundation Type A4-2 as per Dwg 505573 and action Type A4-2 as per Dwg 505573-462 Steel Weight (lb) Grout (I)	each each each each each each each each	ture count: for Tower Type A	24 21 22 24 24 O A4 (Sound Surface BackFill Vol(m3)	1.00 2.90 2.00 2.00 1.50 EA e Rock)	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 920.20 \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 10,187.25 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - - 61,123.49	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 10,187.25	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Dundation Type A4-2 as per Dwg 505573 andation Type A4-2 as per Dwg 505573-462 Steel Weight (lb) Grout (l) 332 6.0	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 24 24 24 24 24 24 24 24 24 24 24 24	1.00 2.90 2.00 2.00 1.50 EA e Rock) #Anchor Holes 1.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ \$ - \$ \$ \$ 10,187.25 \$ \$ \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - 61,123.49	6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21 Haul	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Dundation Type A4-2 as per Dwg 505573 andation Type A4-2 as per Dwg 505573-462 Steel Weight (lb) Grout (l) 332 6.0 Foundation Haul	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 22 24 3 4 (Sound Surface BackFill Vol(m3) 0.0	1.00 2.90 2.00 2.00 1.50 EA e Rock) #Anchor Holes 1.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - 61,123.49	6 6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21 Haul Excavate	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Dundation Type A4-2 as per Dwg 505573 andation Type A4-2 as per Dwg 505573-462 Steel Weight (lb) Grout (l) 332 6.0 Foundation Haul Found Excavation	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 22 24 3 4 4 (Sound Surface BackFill Vol(m3) 0.0 17	1.00 2.90 2.00 2.00 1.50 EA e Rock) #Anchor Holes 1.00 1.14 0.57	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ - \$ 1.8	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$ \$ 653.83 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - 61,123.49	6 6 6 6 6 6 6 6	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21 Haul Excavate Prepare Rock Surface	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Doundation Type A4-2 as per Dwg 505573 andation Type A4-2 as per Dwg 505573-462 Steel Weight (Ib) Grout (I) 332 6.0 Foundation Haul Found Excavation Found Excavation	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 24 3 4 4 (Sound Surface BackFill Vol(m3) 0.0 17 19	EA e Rock) #Anchor Holes 1.00 1.14 0.57 1.50	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1.18 \$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$ \$ 653.83 \$ \$ 1,715.64 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - 61,123.49	6 6 6 6 6 6 6 6 0 0	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76 \$ - \$ - \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21 Haul Excavate Prepare Rock Surface Rock drill Setup	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A4-2 as per Dwg 505573-462 Steel Weight (Ib) Grout (I) 332 G.0 Foundation Haul Found Excavation Found Excavation Found Excavation Rock Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 3 24 6 3 6 4 7 4 (Sound Surface BackFill Vol(m3) 0.0 17 19 19	EA e Rock) #Anchor Holes 1.00 1.50 1.50 1.14 0.57 1.50 1.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1.18 \$ 441.04 \$ 1,143.76 \$ 920.20	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$ \$ 653.83 \$ \$ 1,715.64 \$ \$ 920.20 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - 61,123.49	6 6 6 6 6 6 6 6 0 0	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76 \$ - \$ - \$ - \$ - \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Found S1-C36 Assembly and Installation of Found Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 3 24 6 3 6 4 (Sound Surface BackFill Vol(m3) 0.0 17 19 19 36	EA e Rock) #Anchor Holes 1.00 1.50 1.50 1.00 1.14 0.57 1.50 1.00 3.11	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1.18 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$ \$ 653.83 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,905.26 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - 61,123.49	6 6 6 6 6 6 6 6 0 0 0	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76 \$ - \$ - \$ - \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Four	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations Foundation Type A4-2 as per Dwg 505573-462 Steel Weight (Ib) Grout (I) 332 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 3 24 6 3 6 6 7 7 8 4 (Sound Surface BackFill Vol(m3) 0.0 17 19 19 19 36 24 21	EA e Rock) #Anchor Holes 1.00 1.50 1.14 0.57 1.50 1.00 3.11 2.00	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1.143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$ \$ 653.83 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - - 61,123.49	6 6 6 6 6 6 6 6 0 0 0 0	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76 \$ - \$ - \$ - \$ - \$ 10,408.76	\$ 2,541.85	\$ 12,950.60	\$
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C36 Assembly and Installation of Four	Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 6.4	24 21 22 3 24 6 3 6 3 7 4 (Sound Surface BackFill Vol(m3) 0.0 17 19 19 19 36 24 1 21	EA e Rock) #Anchor Holes 1.00 1.50 1.50 1.00 1.14 0.57 1.50 1.00 3.11	\$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1.18 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 1,403.44 \$ \$ - \$ \$ - \$ \$ 10,187.25 \$ Hole Dia. (mm) 57.0 \$ 501.98 \$ \$ 653.83 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$	5,521.22 16,288.88 11,510.95 2,339.53 8,420.64 - - 61,123.49	6 6 6 6 6 6 6 6 0 0 0	\$ 920.20 \$ 2,714.81 \$ 1,918.49 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 10,187.25 \$ 10,408.76 \$ - \$ - \$ - \$ - \$ 10,5187.25	\$ 2,541.85	\$ 12,950.60	\$

each 🦯



THE COLL SECTION OF THE COLLEGE	struction Front 1 (Labrador)						Crew Cost						Total Unit Cost	
			Units			Hours per			0.14.4.1				Manhours and	
Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
S1-C37 Assembly and Installation of F	Foundation Type R1-2 as ner Γ	wg 505573- Total	tructure co	unt·	13	EA			\$ 136,233.3	9	\$ 10,479.49	\$ 2,708.48	\$ 13,187.97	\$ 35,2
S1-C37 Assembly and Installation of Fou									(00,200.0		10,110110		Ψ,	-
Pad: 1.6m x 1.6m x 0.8m Concrete (m3) =	Steel Weight (lb) Grout (I)				ckFill Vol(m3)	•	Hole Depth (m)	Hole Dia. (mm)						
2.36	332	6.0 62	8	6.7	0.0	1.00	1.8	57.0						
Haul	Foundation Ha	ea ea	:h	13	17	1.14	\$ 441.04		\$ 6,527.7	8 13				
Excavate	Found Excave	ion ea	:h	13	19	0.57	\$ 1,143.76							
Prepare Rock Surface	Found Excava	ion ea	:h	13	19	1.50	\$ 1,143.76		\$ 22,303.3			-		
Rock drill Setup	Rock Foundal			13	36	1.00	\$ 920.20		\$ 11,962.6					
Install Footing, Form and Pour base	Concrete Four			13	24	3.18	\$ 935.63	<u> </u>	·					
Backfill & Compact	Backfill and C			13	21	2.00	\$ 959.25		\$ 24,940.3					
Cleanup	Site Cleanup	ea		13	22	2.00	\$ 194.96							
Heat and Hoard	Concrete Four			13	24	1.50	\$ 935.63							
		ea		13			-	\$ -	\$ -			4		
		ea		13			-	\$ -	\$ -			4		
		ea	in	13			a -	\$ - 40.470.40	\$ -					
								\$ 10,479.49	\$ 136,233.3	9	\$ 10,479.49			
S1-C38 Assembly and Installation of F	Foundation Type B2 2 as per F	wa E0EE72 Total	tructure co	unt	32	EA			\$ 840,870.1	5	\$ 26,277.19	\$ 2,793.12	\$ 29,070.31	\$ 89,3
S1-C36 Assembly and Installation of Fou						_ EA			040,070.1	3	\$ 20,277.19	\$ 2,793.12	\$ 29,070.31	a 09,3
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)		g) Excavati		ackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
2.43	4441	199.0 124		224.6	222.2	10.00	6.0	57.0						
Haul	Foundation H			32	17	2.85	\$ 441.04		\$ 40,228.2	7 32	\$ 1,257.13	7		
Excavate	Found Excave			32	19	3.00	\$ 1,143.76		\$ 109,649.9					
Prepare Rock Surface	Found Excave			32	19	4.50	\$ 1,143.76							
Rock drill Setup	Rock Foundal			32	36	1.00	\$ 920.20		·					
	TOOK T OUTGO					1 1 00								
Install Footing, Form and Pour base	Concrete Four	dations ea	:h											
Install Footing, Form and Pour base Backfill & Compact	Concrete Four			32	24	10.10	\$ 935.63	\$ 9,446.25	\$ 302,280.1	3 32	\$ 9,446.25			
Backfill & Compact	Backfill and C	mpact ea	:h	32 32	24 21	10.10 4.47	\$ 935.63 \$ 959.25	\$ 9,446.25 \$ 4,286.76	\$ 302,280.1 \$ 137,176.3	3 32 9 32	\$ 9,446.25 \$ 4,286.76			
Backfill & Compact Cleanup	Backfill and C Site Cleanup	mpact each	ch ch	32 32 32	24 21 22	10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4	3 32 9 32 8 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92			
Backfill & Compact	Backfill and C	mpact each	:h :h :h	32 32 32 32	24 21	10.10 4.47	\$ 935.63 \$ 959.25	\$ 9,446.25 \$ 4,286.76 \$ 389.92	\$ 302,280.1 \$ 137,176.3	3 32 9 32 8 32 6 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44			
Backfill & Compact Cleanup	Backfill and C Site Cleanup	mpact ear ear dations ear	ch ch ch	32 32 32 32 32 32	24 21 22	10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0	3 32 9 32 8 32 6 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -			
Backfill & Compact Cleanup	Backfill and C Site Cleanup	mpact ear	ch ch ch ch	32 32 32 32	24 21 22	10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ -	3 32 9 32 8 32 6 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -			
Backfill & Compact Cleanup	Backfill and C Site Cleanup	mpact eal eal dations eal eal eal	ch ch ch ch	32 32 32 32 32 32 32	24 21 22	10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ -	3 32 9 32 8 32 6 32 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -			
Backfill & Compact Cleanup	Backfill and C Site Cleanup	mpact eal eal dations eal eal eal	ch ch ch ch	32 32 32 32 32 32 32	24 21 22	10.10 4.47 2.00 1.50	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ -	3 32 9 32 8 32 6 32 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -			
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F	Backfill and C Site Cleanup Concrete Fou	ear ch c	32 32 32 32 32 32 32 32	24 21 22	10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ -	3 32 9 32 8 32 6 32 32 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -		\$ 27,926.55	\$ 78,2	
Backfill & Compact Cleanup Heat and Hoard	Backfill and C Site Cleanup Concrete Fou	ear ch c	32 32 32 32 32 32 32 32	24 21 22 22 24	10.10 4.47 2.00 1.50	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 840,870.1	3 32 9 32 8 32 6 32 32 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 26,277.19		\$ 27,926.55	\$ 78,2	
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F	Backfill and C Site Cleanup Concrete Fou	ear chhich	32 32 32 32 32 32 32 32 wer Type C1 ion (m3) Ba	24 21 22 22 24	10.10 4.47 2.00 1.50	\$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 840,870.1	3 32 9 32 8 32 6 32 32 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ - \$ 26,277.19		\$ 27,926.55	\$ 78,2	
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four	Backfill and C Site Cleanup Concrete Four Foundation Type C1-2 as per D Landation Type C1-2 as per Dwg	ear	chhich	32 32 32 32 32 32 32 32 32 wer Type C1 tion (m3) Ba 224.6	24 21 22 24 24	10.10 4.47 2.00 1.50	\$ 935.63 \$ 959.28 \$ 194.96 \$ 935.63 \$ -	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 5 \$ 840,870.1 \$ 703,736.1	3 32 9 32 8 32 6 32 32 32 5	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 \$ 25,133.43		\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Backfill and C Site Cleanup Concrete Four Foundation Type C1-2 as per D Lindation Type C1-2 as per Dwg Steel Weight (Ib) Grout (I)	mpact ear ear dations ear ear ear ear ear ear ear wg 505573- Total : 505573-4622-42DD- Rebar (I 199.0 124 u ear	chhich chhich chhich chhich chich chich chich chich chich chick ch	32 32 32 32 32 32 32 32 32 wunt:	24 21 22 24 24 28 ackFill Vol(m3) 222.2	#Anchor Holes 10.00 2.85	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 441.04	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 8 \$ - \$ 840,870.1 \$ 703,736.1	3 32 9 32 8 32 6 32 32 32 5	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 \$ 1,257.13	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate	Foundation Type C1-2 as per E undation Type C1-2 as per Dwg Steel Weight (Ib) 4441	mpact ear ear dations ear ear ear ear ear wg 505573- Total : 505573-4622-42DD- Rebar (I 199.0 124 dations ear	chhich chhich chhich chhich chich chich chich chich chich chick ch	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 ackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 2.85 3.00	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ - \$ 1,143.76	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ - \$ 840,870.1 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6	3 32 9 32 8 32 6 32 32 32 5 1	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 \$ 25,133.43 \$ 1,257.13 \$ 3,426.56	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface	Foundation Type C1-2 as per E undation Type C1-2 as per Dwg Steel Weight (lb) Grout (l) 4441	Paris Pari	chhich chhich chhich chhich chhich chhich chich chick	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 28 222.2 17 19	#Anchor Holes 10.00 2.85 3.00 3.50	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 840,870.1 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4	3 32 9 32 8 32 6 32 32 32 5 1	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 \$ 25,133.43 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup	Foundation Type C1-2 as per E undation Type C1-2 as per Dwg Steel Weight (Ib) 4441 Foundation H Foundation H	Page	chhich chhich chhich chhich chhich chhich chich chick	32 32 32 32 32 32 32 32 32 32	24 21 22 24 28 28 28 28 222.2 17 19 19	#Anchor Holes 10.00 2.85 3.00 3.50 1.00	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 920.20	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ - \$ 8 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7	3 32 9 32 8 32 6 32 32 32 5 1 28 4 28 4 28 1 28	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 \$ 25,133.43 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Foundation Type C1-2 as per E undation Type C1-2 as per Dwg Steel Weight (lb) Grout (l) 4441 Foundation H	Page	chhich chhick chich chick chi	32 32 32 32 32 32 32 32 32 32	24 21 22 24 28 28 ackFill Vol(m3) 222.2 17 19 19 36 24	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ - \$ 840,870.1 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7 \$ 264,495.1	3 32 9 32 8 32 6 32 32 32 5 1	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 \$ 25,133.43 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Backfill and C Site Cleanup Concrete Four Concrete Four Concrete Four Foundation Type C1-2 as per D undation Type C1-2 as per Dwg Steel Weight (Ib) Grout (I) 4441 Foundation H Found Excave Found Excave Rook Foundation R	Page	chhich chhick chich chick c	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47	\$ 935.63 \$ 959.28 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ - \$ 840,870.1 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7 \$ 264,495.1 \$ 120,029.3	3 32 9 32 8 32 6 32 32 32 5 1 28 8 28 4 28 4 28 4 28 4 28	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 \$ 25,133.43 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Fou Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Backfill and C Site Cleanup Concrete Foul Foundation Type C1-2 as per Dwg undation Type C1-2 as per Dwg Steel Weight (Ib) Grout (I) 4441 Foundation H Found Excave Rock Foundat Concrete Foul Backfill and C Site Cleanup	Page	chhich chhick chick chic	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 222.2 17 19 19 36 24 21 22	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ - \$ 840,870.1 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7 \$ 264,495.1 \$ 120,029.3 \$ 10,917.8	3 32 9 32 8 32 6 32 32 32 5 1 28 8 28 4 28 4 28 4 28 4 28 0 28	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 \$ 25,133.43 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Backfill and C Site Cleanup Concrete Four Concrete Four Concrete Four Concrete Four Foundation Type C1-2 as per Dwg Undation Type C1-2 as per Dwg Steel Weight (lb) Grout (l) 4441 Foundation H Found Excave Found Excave Rock Foundat Concrete Four Backfill and C	Page	chhich chhick chick chic	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 8 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7 \$ 264,495.1 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3	3 32 9 32 8 32 6 32 32 32 5 1 4 28 4 28 4 28 4 28 4 28 4 28 6 32 32 32 32 32 32 32 32 32 32	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 \$ 25,133.43 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Fou Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Backfill and C Site Cleanup Concrete Foul Foundation Type C1-2 as per Dwg undation Type C1-2 as per Dwg Steel Weight (Ib) Grout (I) 4441 Foundation H Found Excave Rock Foundat Concrete Foul Backfill and C Site Cleanup	Page	chhich chhick chick chic	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 222.2 17 19 19 36 24 21 22	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 840,870.1 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7 \$ 264,495.1 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3	3 32 9 32 8 32 6 32 32 32 5 1 4 28 8 28 4 28 4 28 4 28 4 28 0 28 0 28 0 28 0 28	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 \$ 25,133.43 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 2,793.12	\$ 27,926.55	\$ 78,2
Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly and Installation of F S1-C39 Assembly and Installation of Fou Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Backfill and C Site Cleanup Concrete Foul Foundation Type C1-2 as per Dwg undation Type C1-2 as per Dwg Steel Weight (Ib) Grout (I) 4441 Foundation H Found Excave Rock Foundat Concrete Foul Backfill and C Site Cleanup	Page	ctructure colors	32 32 32 32 32 32 32 32 32 32 32 32 32 3	24 21 22 24 24 28 28 222.2 17 19 19 36 24 21 22	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	\$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 302,280.1 \$ 137,176.3 \$ 12,477.4 \$ 44,910.0 \$ - \$ - \$ 8 \$ 703,736.1 \$ 35,199.7 \$ 95,943.6 \$ 112,088.4 \$ 25,765.7 \$ 264,495.1 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3	3 32 9 32 8 32 6 32 32 32 5 1 28 4 28 4 28 4 28 4 28 0 28 0 28 0 28 28	\$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 26,277.19 \$ 25,133.43 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 2,793.12	\$ 27,926.55	\$ 78,2



St-C40 Assembly and installation of Foundation Type C2-2 as per Dwg 955573 Total Materials St-C40 Assembly and installation of Foundation Type C2-2 as per Dwg 955574-622-4620-0-0026 for Fower Type C2	NALCOR 350 kV HVdc Li	ine Construction Front 1	(Labrador)				<u> </u>	Crew Cost	T					Total Unit Cost		
Site Assembly and instillation of Foundation Type C2-2 as per Dug 986972 Total structure country Site C2 per Dug 986972 Total structure country Site	Description				Units Total	Crew No.	Hours per	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
Section Processing Proces	Becenpuen				rotar	OICW NO.	unit	Tiodily Nate	Onit Cost	Gustotai	Ornio	Offit Cost	Materiale	Materiale	Total Materials	
Section Sect							EA			\$ 954,133.	94	\$ 26,503.72	2,793.12	\$ 29,296.84	\$	100,55
2.65 4655 4993 174.3 774.6 777.2 10.30 6.3 44.03 1.177.5 5.40 4.00 4.15 1.777.50 4.00 4.00 5.177.50 4.00 4.00 5.177.50 5.177.5	-						" *									
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ShCH Assembly and installation of Foundation Type D1-2 as per Dwg 90577- Total structure count: Col. ShCH Assembly and installation of Foundation Type D1-2 as per Dwg 90576-A022-4200-00206 for Tower Type D1 The Part of Poundation Type D1-2 as per Dwg 90576-A022-4200-00206 for Tower Type D1 The Part of Poundation Type D1-2 as per Dwg 90576-A022-4200-00206 for Tower Type D1 The Part of Poundation Type D1-2 as per Dwg 90576-A022-4200-00206 for Tower Type D1 The Part of Poundation Type D2-2 as per Dwg 90576-A022-4200-00206 for Tower Type D2 The Part of Poundation Type D2-2 as per Dwg 90576-A022-4200-00206 for Tower Type D2 The Part of Poundation Type D2-2 as per Dwg 90576-A022-4200-00206 for Tower Type D2 The Part of Poundation Type D2-2 as per Dwg 90576-A022-4200-00206 for Tower Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape The Part of Poundation Type D2-2 as per Dwg 90577- Total structure count: Shape								9 -								
\$ 25,003.72 \$ 954.133.94 \$ 265.003.72 \$ 104.133.94 \$ 265.003.72 \$ 104.133.94 \$ 265.003.72 \$ 104.133.94 \$ 107.								Ψ		\$						
S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573 - Total Structure count: S1-C42 Assembly and Installation of Foundation Type D1-2 as per Dwg 505574-6029-24D0-00026 for Tower Type D12 Foundation Type D1-2 as per Dwg 505573-6029-24D0-00026 for Tower Type D12 Foundation Type D1-2 as per Dwg 505573-6029-24D0-00026 for Tower Type D12 Foundation Type D1-2 as per Dwg 505573-6029-24D0-00026 for Tower Type D12 Foundation Type D1-2 as per Dwg 505573-6029-24D0-00026 for Tower Type D12 Foundation Type D1-2 as per Dwg 505573- Total Structure count: S2, S2, S3, S3, S3, S3, S3, S3, S3, S3, S3, S3				Cacii	30			Ψ -	7	-						
St-C42 Assembly and Installation of Foundation Type D1-2 as per Dwg 506573-4622-42DD-0026 for Tower Type D1 Per 2.2m 2.4m 4863 216.6 124.3 224.6 0.77 2.2m 10.00 0.5 57.0									Ψ 20,000.72	Ψ 30 4 ,133.	7-	Ψ 20,000.72				
St-C42 Assembly and Installation of Foundation Type D1-2 as per Dwg 506573-4622-42DD-0026 for Tower Type D1 Per 2.2m 2.4m 4863 216.6 124.3 224.6 0.77 2.2m 10.00 0.5 57.0	S1-C41 Assembly and Install	lation of Foundation Type D	01-2 as ner Dwg 50557	73- Total struc	ture count:	60	FΔ			\$ 1,537,907	70	\$ 25 631 79	2 793 12	\$ 28 424 91	S	167,58
Part 2										Ψ 1,001,001.	· ·	Ψ 20,001.10	2,700.12	Ψ 20,424.51	•	101,00
Haul 1243 4683 215.6 124.3 224.6 222.2 10,00	•	· · · · · · · · · · · · · · · · · · ·			,,		#Anchor Holes	Hole Depth (m)	Hole Dia (mm)							
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Example Section Sect		1000								\$ 78 101	93 60	\$ 1,301,70				
Prepare Rock Surface								-								
Rook drill Setup						19			3.420.00	a 200.095.	50 1 60	11 \$ 3.426.56 1				
Install Footing, Form and Pour base count houseasters ceach 60 24 10.58 \$ 9,900.05 \$ 594,003.07 60 \$ 9,900.05 \$ 9																
Backfill & Compact 6ach 60 21 4.47 \$ 969/25 \$ 4.286 / 6 \$ 257,005.72 60 \$ 4.286 / 6 \$ 23,395.28 60 \$ 380.92 \$ 4.286 / 6 \$ 23,395.28 60 \$ 380.92 \$ 4.286 / 6 \$ 4.28	Prepare Rock Surface		Found Excavation	each	60	19	3.50	\$ 1,143.7	\$ 4,003.16	\$ 240,189.	51 60	\$ 4,003.16				
Cleanup Stat Comps Geach Geo Curren Providers Geach Geo G	Prepare Rock Surface Rock drill Setup	r base	Found Excavation Rock Foundations	each each	60 60	19 36	3.50 1.00	\$ 1,143.7 \$ 920.2	\$ 4,003.16 \$ 920.20	\$ 240,189. \$ 55,212.	51 60 23 60	\$ 4,003.16 \$ 920.20				
Heat and Hoard	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour	r base	Found Excavation Rock Foundations Concrete Foundations	each each each	60 60 60	19 36 24	3.50 1.00 10.58	\$ 1,143.7 \$ 920.2 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05	\$ 240,189. \$ 55,212. \$ 594,003.	51 60 23 60 07 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05				
Since Geach Geac	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each	60 60 60 60	19 36 24 21	3.50 1.00 10.58 4.47	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205.	51 60 23 60 07 60 72 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76				
S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573 - Total structure count: S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573 - Total structure count: S2-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573 - 4622 - 42DD-00026 for Tower Type D2-2 Pad: 22m x 2.4m x 0.4m Concrete (m) = Steel Weight (b) Grout (f) Rebar (kg) Excavation (m3) BackFill Vol(m3)	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each	60 60 60 60 60	19 36 24 21 22	3.50 1.00 10.58 4.47 2.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395.	51 60 23 60 07 60 72 60 28 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92				
\$ 25,631.79 \$ 1,537,907.70 \$ 1,537,907.70 \$ 1	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each	60 60 60 60 60 60	19 36 24 21 22 24	3.50 1.00 10.58 4.47 2.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206.	51 60 23 60 07 60 72 60 28 60 36 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44				
S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573- Total structure count: 36 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type D2 Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Grout (t) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Grout (t) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Grout (t) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Grout (t) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Grout (t) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Grout (t) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Dia. (mm) Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (tip) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes MackFill Vol(m3) #Anchor Holes (m4) Steel Vo	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	60 60 60 60 60 60 60	19 36 24 21 22 24	3.50 1.00 10.58 4.47 2.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206.	51 60 23 60 07 60 72 60 28 60 66 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -				
S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type D2 Patt 2.2m x 2.4m x 0.4m Concrete (m3) = Steel Weight (lib) Grut (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) BackFil	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	60 60 60 60 60 60 60 60	19 36 24 21 22 24	3.50 1.00 10.58 4.47 2.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ -	51 60 23 60 57 60 72 60 28 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -				
S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type D2 Patt 2.2m x 2.4m x 0.4m Concrete (m3) = Steel Weight (lib) Grut (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) BackFil	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	60 60 60 60 60 60 60 60	19 36 24 21 22 24	3.50 1.00 10.58 4.47 2.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ -	51 60 23 60 07 60 72 60 28 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -				
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = Steel Weight (ib) Grout (i) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) 2.43 4683 215.6 124.3 224.6 222.2 10.00 6.5 57.0 Haul Haul Frontiers in the cash Security of the control of the	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	r base	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	60 60 60 60 60 60 60 60	19 36 24 21 22 24	3.50 1.00 10.58 4.47 2.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ -	51 60 23 60 07 60 72 60 28 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -				
2.43 4683 215.6 124.3 224.6 222.2 10.00 6.5 57.0 Haul Foundation Haid each 36 17 2.95 \$ 441.04 \$ 1,301.70 \$ 46,861.16 36 \$ 1,301.70 \$ Excavate Foundations deach 36 19 3.00 \$ 1,143.76 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.56 \$ 1,443.77 \$ 3,426.7	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60	19 36 24 21 22 24	3.50 1.00 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ - \$ 1,537,907.	51 60 23 60 77 60 72 60 28 60 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79	2,793.12	\$ 29,568.67	\$	100,55
Haul Foundation Haul each 36 17 2.95 \$ 441.04 \$ 1,301.70 \$ 46,861.16 36 \$ 1,301.70 \$ Excavate Foundations deach 36 19 3.00 \$ 1,143.76 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ \$ 3,426.56 \$ 123,356.16 36 \$ \$ 3,426.56 \$ 123,356.16 \$ 13,427.34 \$ 3,6 \$ \$ 3,426.56 \$ 123,356.16 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.34 \$ 13,427.	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard	llation of Foundation Type D	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60	19 36 24 21 22 24 36	3.50 1.00 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ - \$ 1,537,907.	51 60 23 60 77 60 72 60 28 60 66 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79	2,793.12	\$ 29,568.67	\$	100,55
Excavate Found Excavation each 36 19 3.00 \$ 1,143.76 \$ 3,426.56 \$ 123,356.16 36 \$ 3,426.56 Prepare Rock Surface Found Excavation each 36 19 4.50 \$ 1,143.76 \$ 5,146.92 \$ 185,289.05 36 \$ 5,146.92 Rock drill Setup Rock Foundations each 36 1.00 \$ 920.20 \$ 920.20 \$ 33,127.34 36 \$ 920.20 Rock drill Footing, Form and Pour base cach 36 24 10,58 \$ 935.63 \$ 9,900.05 \$ 356,401.84 36 \$ 9,900.05 Backfill & Compact Backfil	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (m3	llation of Foundation Type Dation of Foundation Type D	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 2 2 3 per Dwg 505573-4	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: for Tower Type E	19 36 24 21 22 24 36 2 BackFill Vol(m3)	3.50 1.00 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ -	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ - \$ 1,537,907.	51 60 23 60 77 60 72 60 28 60 66 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79	2,793.12	\$ 29,568.67	\$	100,55
Prepare Rock Surface Found Excavation each 36 19 4.50 \$ 1,143.76 \$ 5,146.92 \$ 185,289.05 36 \$ 5,146.92 Rock drill Setup Rock Foundations each 36 36 1.00 \$ 920.20 \$ 920.20 \$ 33,127.34 36 \$ 920.20 Install Footing, Form and Pour base Concrete Foundations each 36 24 10.58 \$ 935.63 \$ 9,900.05 \$ 356,401.84 36 \$ 9,900.05 Backfill & Compact Backfill & Compact each 36 21 4.47 \$ 959.25 \$ 4,286.76 \$ 154,323.43 36 \$ 9,900.05 Cleanup Ste Cleanup each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 Heat and Hoard Concrete Foundations each 36 24 1.50 \$ 935.63 \$ 1,403.44 \$ 50,523.82 36 \$ 1,403.44 Each 36 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - </td <td>Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (m3</td> <td>llation of Foundation Type Dation of Foundation Type D2-2 3) = Steel Weight (lb)</td> <td>Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I)</td> <td>each each each each each each each each</td> <td>60 60 60 60 60 60 60 60 60 ture count: for Tower Type E</td> <td>19 36 24 21 22 24 36 2 BackFill Vol(m3)</td> <td>3.50 1.00 10.58 4.47 2.00 1.50 ea #Anchor Holes</td> <td>\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ -</td> <td>\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 Hole Dia. (mm)</td> <td>\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ - \$ 1,537,907. \$ 963,919.</td> <td>51 60 23 60 77 60 72 60 28 60 60 60 60</td> <td>\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79 \$ 26,775.55</td> <td>2,793.12</td> <td>\$ 29,568.67</td> <td>\$</td> <td>100,55</td>	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (m3	llation of Foundation Type Dation of Foundation Type D2-2 3) = Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I)	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: for Tower Type E	19 36 24 21 22 24 36 2 BackFill Vol(m3)	3.50 1.00 10.58 4.47 2.00 1.50 ea #Anchor Holes	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ -	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 Hole Dia. (mm)	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ - \$ 1,537,907. \$ 963,919.	51 60 23 60 77 60 72 60 28 60 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79 \$ 26,775.55	2,793.12	\$ 29,568.67	\$	100,55
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Install Footing, Form and Pour base Concrete Foundations each 36 24 10.58 \$ 935.63 \$ 9,900.05 \$ 356,401.84 36 \$ 9,900.05 Backfill & Compact Backfill and Compact each 36 21 4.47 \$ 959.25 \$ 4,286.76 \$ 154,323.43 36 \$ 4,286.76 Cleanup Site Cleanup each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 Heat and Hoard Concrete Foundations each 36 24 1.50 \$ 935.63 \$ 1,403.44 \$ 50,523.82 36 \$ 1,403.44 each 36 24 1.50 \$ 935.63 \$ 1,403.44 \$ 50,523.82 36 \$ 1,403.44 each 36 \$ - <	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (md) 2.43 Haul Excavate	llation of Foundation Type Dation of Foundation Type D2-2 3) = Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: 6 for Tower Type E Excavation (m3) 224.6	19 36 24 21 22 24 36 22 BackFill Vol(m3) 222.2 17	3.50 1.00 10.58 4.47 2.00 1.50 ea #Anchor Holes 10.00 2.95 3.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ - \$ 1,143.7	## ## ## ## ## ## ## ## ## ## ## ## ##	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356.	51 60 23 60 77 60 72 60 28 60 60 60 60 70 70 70	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79 \$ 26,775.55	2,793.12	\$ 29,568.67	\$	100,55
Backfill & Compact Backfill & Compact each 36 21 4.47 \$ 959.25 \$ 4,286.76 \$ 154,323.43 36 \$ 4,286.76 Cleanup Site Cleanup each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 Heat and Hoard Concrete Foundations each 36 24 1.50 \$ 935.63 \$ 1,403.44 \$ 50,523.82 36 \$ 1,403.44 Each 36 \$ - \$ - \$ - \$ - 36 \$ - Each 36 \$ - \$ - \$ - \$ - 36 \$ - Each 36 \$ - <td< td=""><td>Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (md) 2.43 Haul Excavate Prepare Rock Surface</td><td>llation of Foundation Type Dation of Foundation Type D2-2 3) = Steel Weight (lb)</td><td>Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul Found Excavation</td><td>each each each each each each each each</td><td>60 60 60 60 60 60 60 60 60 ture count: 6 for Tower Type E Excavation (m3) 224.6</td><td>19 36 24 21 22 24 36 22 BackFill Vol(m3) 222.2 17 19</td><td>3.50 1.00 10.58 4.47 2.00 1.50 1.50 ea #Anchor Holes 10.00 2.95 3.00 4.50</td><td>\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7</td><td>## ## ## ## ## ## ## ## ## ## ## ## ##</td><td>\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289.</td><td>51 60 23 60 77 60 72 60 28 60 60 60 60 70 70 70 70 70 70 70 70 70 7</td><td>\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79 \$ 26,775.55 \$ 1,301.70 \$ 3,426.56 \$ 5,146.92</td><td>2,793.12</td><td>\$ 29,568.67</td><td>\$</td><td>100,55</td></td<>	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (md) 2.43 Haul Excavate Prepare Rock Surface	llation of Foundation Type Dation of Foundation Type D2-2 3) = Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul Found Excavation	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: 6 for Tower Type E Excavation (m3) 224.6	19 36 24 21 22 24 36 22 BackFill Vol(m3) 222.2 17 19	3.50 1.00 10.58 4.47 2.00 1.50 1.50 ea #Anchor Holes 10.00 2.95 3.00 4.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7	## ## ## ## ## ## ## ## ## ## ## ## ##	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289.	51 60 23 60 77 60 72 60 28 60 60 60 60 70 70 70 70 70 70 70 70 70 7	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79 \$ 26,775.55 \$ 1,301.70 \$ 3,426.56 \$ 5,146.92	2,793.12	\$ 29,568.67	\$	100,55
Cleanup site Cleanup each 36 22 2.00 \$ 194.96 \$ 389.92 \$ 14,037.17 36 \$ 389.92 Heat and Hoard Concrete Foundations each 36 24 1.50 \$ 935.63 \$ 1,403.44 \$ 50,523.82 36 \$ 1,403.44 each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - \$ - 36 \$ - each 36 \$ - <	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Installs S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (mode) 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 22-2 as per Dwg 505573-41 Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: 6 for Tower Type E Excavation (m3) 224.6	19 36 24 21 22 24 36 22 BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 2.95 3.00 4.50 1.00	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7	### ### ##############################	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 33,127.	51 60 23 60 77 60 72 60 28 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 920.20	2,793.12	\$ 29,568.67	\$	100,55
Heat and Hoard Concrete Foundations each 36 24 1.50 \$ 935.63 \$ 1,403.44 \$ 50,523.82 36 \$ 1,403.44 each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ -	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Installs S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (m/2 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4: Grout (I) 215.6 Foundation Haul Found Excavation Rock Foundations	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: for Tower Type E Excavation (m3) 224.6 36 36	19 36 24 21 22 24 36 2 BackFill Vol(m3) 222.2 17 19 19 36 24	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6	### ### ##############################	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 33,127. \$ 356,401.	51 60 23 60 77 60 72 60 28 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,900.05	2,793.12	\$ 29,568.67	\$	100,55
each 36 \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ - each 36 \$ - \$ - \$ - 36 \$ -	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Install S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (mode) 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 Grout (I) 215.6 Foundation Haul Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: for Tower Type E Excavation (m3) 224.6 36 36 36	19 36 24 21 22 24 24 36 22 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58 4.47	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2	### ### ##############################	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 33,127. \$ 356,401. \$ 154,323.	51 60 23 60 77 60 72 60 28 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,900.05 \$ 4,286.76	2,793.12	\$ 29,568.67	\$	100,55
each 36 \$ - \$ - 36 \$ - each 36 \$ - \$ - 36 \$ -	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Installs S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (mode) 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60 50 50 50 50 50 50 50 50 50 50 50 50 50	19 36 24 21 22 24 36 2 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.95 3.00 4.50 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9	Hole Dia. (mm) 57.0 Hole Dia. (mm) 57.0 S 3,426.56 S 5,146.92 S 9,900.05 S 4,286.76 S 389.92 S 1,403.44 S	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 356,401. \$ 154,323. \$ 14,037.	51 60 23 60 77 60 72 60 28 60 60 60 60 60 60 60 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 9,900.05 \$ 4,286.76 \$ 389.92	2,793.12	\$ 29,568.67	\$	100,55
each 36 \$ - \$ - 36 \$ -	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Installs S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (mode) 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: for Tower Type E Excavation (m3) 224.6 36 36 36 36	19 36 24 21 22 24 36 22 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.95 3.00 4.50 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9	Hole Dia. (mm) 57.0 \$ 1,301.70 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ \$ 25,631.79	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 33,127. \$ 356,401. \$ 154,323. \$ 14,037. \$ 50,523.	51 60 23 60 77 60 72 60 28 60 60 60 60 60 60 60 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44	2,793.12	\$ 29,568.67	\$	100,55
	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Installs S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (m3 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60 60 ture count: for Tower Type E Excavation (m3) 224.6 36 36 36 36 36	19 36 24 21 22 24 36 22 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.95 3.00 4.50 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ 935.6	Hole Dia. (mm) 57.0 Hole Dia. (mm) 57.0 \$ 1,301.70 \$ 3,426.56 \$ 5,146.92 \$ 9,900.05 \$ 4,286.76	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 356,401. \$ 154,323. \$ 14,037. \$ 50,523.	51 60 23 60 77 60 72 60 28 60 60 60 60 60 60 60 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	2,793.12	\$ 29,568.67	\$	100,55
	Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup Heat and Hoard S1-C42 Assembly and Installs S1-C42 Assembly and Installa Pad: 2.2m x 2.4m x 0.4m Concrete (m3 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour Backfill & Compact Cleanup	llation of Foundation Type D ation of Foundation Type D2-2 i3) = Steel Weight (lb) 4683	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573-4 Grout (I) 215.6 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	60 60 60 60 60 60 60 60 60 60 ture count: for Tower Type Excavation (m3) 224.6 36 36 36 36 36	19 36 24 21 22 24 36 2 8 36 2 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	#Anchor Holes 10.00 2.95 3.00 4.50 10.58 4.47 2.00 1.50	\$ 1,143.7 \$ 920.2 \$ 935.6 \$ 959.2 \$ 194.9 \$ 935.6 \$ - \$ - \$ - \$ 1,143.7 \$ 1,143.7 \$ 920.2 \$ 941.0 \$ 95.6 \$ 959.2 \$ 194.9 \$ 935.6	Hole Dia. (mm) 57.0 1,301.70 2,146.92 3,900.05 4,286.76 5,389.92 5,631.79	\$ 240,189. \$ 55,212. \$ 594,003. \$ 257,205. \$ 23,395. \$ 84,206. \$ - \$ 1,537,907. \$ 963,919. \$ 46,861. \$ 123,356. \$ 185,289. \$ 33,127. \$ 356,401. \$ 154,323. \$ 14,037.	51 60 23 60 77 60 772 60 28 60 60 60 60 60 60 60 60 60 60	\$ 4,003.16 \$ 920.20 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ 25,631.79 \$ 26,775.55 \$ 3,426.56 \$ 5,146.92 \$ 9,900.05 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 2,793.12	\$ 29,568.67	\$	100,55



NALCOR 350 kV HVdc Line Cor	nstruction Front 1 (L	Labrador)			T			Crew Cost						To	tal Unit Cost		
				Units	_	Hours per									anhours and	L	
Description				Total	Crew No.	unit	Но	urly Rate	Unit Cost	Subtotal	Units	Unit Cost	Mate	rials	Materials	Total Materials	
S1-C43 Assembly and Installation of	f Foundation Type F1-	-2 as ner Dwg 505573	- Total struc	ture count:	24	ea				\$ 620,599.7	6	\$ 25,858.3	2 \$	2,793.12 \$	28,651.44	s	67,034
S1-C43 Assembly and Installation of F										020,000.7		20,000.0	- +	2,100.12	20,001111	•	01,001
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth	(m)	Hole Dia. (mm)								
2.43	4794	232.2	124.3	224.6	222.2	10.00		7.0	57.0								
Haul		Foundation Haul	each	24	4 17	3.00	\$	441.04	\$ 1,321.96			\$ 1,321.9	6				
Excavate		Found Excavation	each	24	4 19	3.00	\$	1,143.76	\$ 3,426.56	\$ 82,237.4	4 24	\$ 3,426.5	6				
Prepare Rock Surface		Found Excavation	each	24	4 19	3.50	\$	1,143.76									
Rock drill Setup		Rock Foundations	each	24		1.00	\$	920.20		\$ 22,084.8							
Install Footing, Form and Pour base		Concrete Foundations	each	24		10.80	\$		\$ 10,106.32								
Backfill & Compact		Backfill and Compact	each	24		4.47	\$	959.25									
Cleanup		Site Cleanup	each	24		2.00	\$	194.96									
Heat and Hoard		Concrete Foundations	each	24		1.50	\$	935.63		À							
			each	24			\$		\$ -	\$ -	24						
			each	24		+	\$		\$ -	\$ -		•					
			each	24	1		\$	-	\$ -	\$ -	24						
									\$ 25,858.32	\$ 620,599.7	6	\$ 25,858.3	2				
C4 C44 Assembly and Installation a	f Faundation Time C4	2 ac mar Dung 505572	Total atmin		20					c 702 720 4	4	¢ 05.400.4	2 6	2 702 42 6	27 020 FF	•	70.00
S1-C44 Assembly and Installation of S1-C44 Assembly and Installation of F					28	ea				\$ 703,736.1	1	\$ 25,133.4	3 \$	2,793.12 \$	27,926.55	Þ	78,20
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Holo Donth	(m)	Holo Dia (mm)								
2.43	4441	149.3	Rebar (kg) 124.3	224.6	222.2	10.00	Hole Depth	4.5	Hole Dia. (mm) 57.0								
Haul		Foundation Haul	each	224.0	_	2.85	¢	441.04		\$ 35,199.7	4 28	\$ 1,257.1	3				
Excavate		Foundation Haul	each	28		3.00	\$	1,143.76									
Prepare Rock Surface		Found Excavation	each	28		3.50	\$	1,143.76									
Rock drill Setup		Rock Foundations	each	28		1.00	\$	920.20		\$ 25,765.7							
Install Footing, Form and Pour base		Concrete Foundations	each	28		10.10	\$	935.63									
Backfill & Compact		Backfill and Compact	each	28		4.47	\$	959. 25		\$ 120,029.3							
Cleanup		Site Cleanup	each	28		2.00	\$	194.96		\$ 10,917.8							
Heat and Hoard		Concrete Foundations	each	28		1.50	\$	935.63		\$ 39,296.3							
		<u> </u>	each	28			\$		\$ -	\$ -	28						
			each	28			Φ.										
				20	8		\$		-	\$ -	28	\$ -					
			each	28			\$		\$ -	\$ - \$ -	28 28						
			each				\$			\$ -	28						
			each				\$		\$ -	\$ - \$ 703,736.1	28	\$ -					
S1-C45 Assembly and Installation of			- Total struc	28 cture count:	28	EA	\$		\$ 25,133.43	\$ -	28	\$ -	3	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F	Foundation Type C2-2 as	as per Dwg 505573-462	3- Total stru o 22-42DD-0026	cture count:	28 C2 (surface rock)-) 7.2mm clad s			\$ - \$ 25,133.43 50kg/km or ~800kg /	\$ - \$ 703,736.1	28	\$ - \$ 25,133.4	3	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I)	3- Total struc 22-42DD-0026 Rebar (kg)	eture count: 5 for Tower Type (Excavation (m3)	28 C2 (surface rock)- BackFill Vol(m3)) 7.2mm clad s #Anchor Holes		(m)	\$ - \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm)	\$ - \$ 703,736.1	28	\$ - \$ 25,133.4	3	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43	Foundation Type C2-2 as	as per Dwg 505573-462	8- Total struc 22-42DD-0026 Rebar (kg) 124.3	cture count: 6 for Tower Type (Excavation (m3) 224.6	28 C2 (surface rock)- BackFill Vol(m3) 222.2) 7.2mm clad s #Anchor Holes 10.00	Hole Depth	(m) 5.0	\$ - \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0	\$ - \$ 703,736.1 \$ 742,104.1	28 1 7	\$ - \$ 25,133.4 \$ 26,503.7	3 2 \$	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I)	R- Total struc 22-42DD-0026 Rebar (kg) 124.3 each	cture count: 6 for Tower Type (Excavation (m3) 224.6	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8) 7.2mm clad s #Anchor Holes 10.00 2.90		(m) 5.0 441.04	\$ - \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39	\$ - \$ 703,736.1 \$ 742,104.1 \$ 35,766.9	28 1 7	\$ - \$ 25,133.4 \$ 26,503.7 \$ 1,277.3	3 2 \$	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate	Foundation Type C2-2 as Steel Weight (lb)	Grout (I) 165.9	Rebar (kg) 124.3 each each	28 Sture count: 6 for Tower Type (Excavation (m3) 224.6 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19) 7.2mm clad s #Anchor Holes 10.00 2.90 3.00	Hole Depth	5.0 441.04 1,143.76	\$ -50kg/km or ~800kg / Hote Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6	7 28 3 28 8 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5	3 2 \$	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation	Rebar (kg) 124.3 each each each	28 Sture count: 6 for Tower Type (Excavation (m3) 224.6 28 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76	\$ -50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7	7 28 3 28 8 28 0 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.5	3 2 \$	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation	Rebar (kg) 124.3 each each each each	28 Sture count: 6 for Tower Type (Excavation (m3) 224.6 28 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36) 7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20	\$ -50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7	28 1 7 3 28 8 28 0 28 1 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.6 \$ 920.2	3 2 \$ 9 6 2 0	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	Rebar (kg) 124.3 each each each each each	28 Eture count: 5 for Tower Type (Excavation (m3) 224.6 28 28 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24	7-7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63	\$ -50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,652.53	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7	7 28 3 28 8 28 0 28 1 28 1 28 1 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.5 \$ 920.2 \$ 9,652.5	3 2 \$ 9 6 2 0 3	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	Rebar (kg) 124.3 each each each each each each each	28 Eture count: 5 for Tower Type (Excavation (m3) 224.6 28 28 28 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24 8 21	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00 10.32 4.47	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25	\$ -50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,652.53 \$ 4,286.76	\$ 703,736.1 \$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7 \$ 120,029.3	3 28 8 28 0 28 1 28 1 28 4 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.9 \$ 920.2 \$ 9,652.5 \$ 4,286.7	3 2 \$ 9 6 2 0 3 6	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	28 Sture count: 5 for Tower Type (Excavation (m3) 224.6 28 28 28 28 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24 8 21 8 22	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00 10.32 4.47 2.00	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96	\$ \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,652.53 \$ 4,286.76 \$ 389.92	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7 \$ 120,029.3 \$ 10,917.8	3 28 8 28 0 28 1 28 1 28 4 28 0 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.9 \$ 920.2 \$ 9,652.5 \$ 4,286.7 \$ 389.6	3 2 \$ 9 6 2 0 3 6 2	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	Rebar (kg) 124.3 each each each each each each each each	28 24.6 28 28 28 28 28 28 28 28 28 28 28 28	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24 8 21 8 22 8 24	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00 10.32 4.47	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ - \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,652.53 \$ 4,286.76 \$ 389.92 \$ 1,403.44	\$ 703,736.1 \$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3	3 28 3 28 8 28 0 28 1 28 1 28 4 28 0 28 0 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.5 \$ 920.2 \$ 9,652.5 \$ 4,286.7 \$ 389.5 \$ 1,403.4	3 2 \$ 9 6 2 0 3 6 2 4	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	28 Sture count: 5 for Tower Type (Excavation (m3) 224.6 28 28 28 28 28 28 28 28 28 2	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24 8 21 8 22 8 24	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00 10.32 4.47 2.00	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,652.53 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3	3 28 8 28 0 28 1 28 1 28 4 28 0 28 0 28 2 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.5 \$ 920.2 \$ 9,652.5 \$ 4,286.7 \$ 389.5 \$ 1,403.4	3 2 \$ 9 6 2 0 3 6 2 4	2,793.12 \$	29,296.84	\$	78,20
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	28 24.6 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24 8 21 8 22 8 24 8 24	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00 10.32 4.47 2.00	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ - 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.2.53 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	\$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3 \$ -	3 28 8 28 0 28 1 28 1 28 4 28 0 28 1 28 2 28 2 28	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.9 \$ 920.2 \$ 9,652.5 \$ 4,286.7 \$ 389.9 \$ 1,403.4	3 2 \$ 9 6 2 0 3 6 2 4	2,793.12 \$	29,296.84	\$	78,207
S1-C45 Assembly and Installation of F Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type C2-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	28 Sture count: 5 for Tower Type (Excavation (m3) 224.6 28 28 28 28 28 28 28 28 28 2	28 C2 (surface rock)- BackFill Vol(m3) 222.2 8 17 8 19 8 19 8 36 8 24 8 21 8 22 8 24 8 24	7.2mm clad s #Anchor Holes 10.00 2.90 3.00 4.50 1.00 10.32 4.47 2.00	Hole Depth	(m) 5.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ \$ 25,133.43 50kg/km or ~800kg / Hole Dia. (mm) 57.0 \$ 1,277.39 \$ 3,426.56 \$ 5,146.92 \$ 920.20 \$ 9,652.53 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$	\$ 703,736.1 \$ 703,736.1 \$ 742,104.1 \$ 35,766.9 \$ 95,943.6 \$ 144,113.7 \$ 25,765.7 \$ 270,270.7 \$ 120,029.3 \$ 10,917.8 \$ 39,296.3 \$ - \$ -	3 28 8 28 0 28 1 28 1 28 1 28 4 28 0 28 2 28 2 28 2 8	\$ 25,133.4 \$ 26,503.7 \$ 1,277.3 \$ 3,426.5 \$ 5,146.9 \$ 920.2 \$ 9,652.5 \$ 4,286.7 \$ 389.9 \$ 1,403.4	9 6 2 0 3 6 2 4	2,793.12 \$	29,296.84	\$	78,20



	R 350 kV HVdc Line Consti	ruction Front 1 (L	abrador)		11.2		<u> </u>	Crew Cos	<u> </u>					Total Unit Cost		
Description	n				Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
	·			Ŀ		0.00.110.	dint	Troury reaco	Offic Good			Crine Good				
	ssembly and Installation of Fo					52	EA			\$ 1,332,853.34		\$ 25,631.79	2,793.12	\$ 28,424.91	\$	145,2
	ssembly and Installation of Four		s per Dwg 505573-462	22-42DD-0026		D1 (surface rock)										
Pad: 2.2m x 2	2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	1 \ /	Hole Dia. (mm)							
ļ	2.43	4683	165.9	124.3	224.6	222.2	10.00	5.0	57.0		1 - 1					
Haul			Foundation Haul	each	52		2.95		.04 \$ 1,301.70			\$ 1,301.70				
Excavate			Found Excavation	each	52		3.00		3,426.56							
	lock Surface		Found Excavation	each	52		3.50		4,003.16			\$ 4,003.16				
Rock drill S			Rock Foundations	each	52		1.00		920.20	\$ 47,850.60	52					
Backfill & C	oting, Form and Pour base		Concrete Foundations	each	52 52		10.58 4.47		.63 \$ 9,900.05 .25 \$ 4,286.76		52 52					
Cleanup	Jompaci		Backfill and Compact	each	52		2.00		.96 \$ 389.92	, , , , , , ,	52					
Heat and H	Hoord		Site Cleanup	each each	52		1.50		.63 \$ 1,403.44							
neat and n	loaru		Concrete Foundations	each	52		1.50	•	- \$ -	\$ 72,976.65	52					
				each	52			\$	- \$ -	\$ -	52					
<u> </u>				each	52			\$	- \$ -	\$ -	52					
				each	52			\$	- \$ -	\$ -	52					
									\$ 25,631.79	\$ 1,332,853.34		\$ 25,631.79				
										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_					
S1-C47 As	ssembly and Installation of Fo	oundation Type D2-	2 as per Dwg 505573	- Total struc	cture count:	28	EA			\$ 749,715.53		\$ 26,775.55	2,793.12	\$ 29,568.67	\$	78,2
	ssembly and Installation of Four									,			_,		•	,-
	2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	2.43	4683	165.9	124.3	224.6	222.2	10.00	5.0	57.0							
Haul			Foundation Haul	each	28	17	2.95	\$ 4 4	.04 \$ 1,301.70	\$ 36,447.57	28	\$ 1,301.70				
Excavate			Found Excavation	each	28	19	3.00	\$ 1,143	.76 \$ 3,426.56	\$ 95,943.68	28	\$ 3,426.56				
Prepare Ro	ock Surface		Found Excavation	each	28	19	4.50	\$ 1,143	5,146.92	\$ 144,113.70	28	\$ 5,146.92				
Rock drill S	Setup		Rock Foundations	each	28		1.00	\$ 920	920.20	\$ 25,765.71	28					
Install Foot	ting, Form and Pour base		Concrete Foundations	each	28	3 24	10.58		9,900.05	\$ 277,201.43						
Backfill & C	Compact		Backfill and Compact	each	28		4.47		4,286.76	\$ 120,029.34	28					
Cleanup			Site Cleanup	each	28		2.00		.96 \$ 389.92	\$ 10,917.80	28					
Heat and H	Hoard		Concrete Foundations	each	28		1.50	\$ 93	1,403.44	\$ 39,296.30	28					
				each	28		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$	- \$ -	\$ -	28					
				each	28			\$	- \$ -	\$ -	28					
				each	28	3		\$	- \$ -	\$ -	28					
									\$ 26,775.55	\$ 749,715.53		\$ 26,775.55				
															_	
															\$	44,6
S1-C48 As	ssembly and Installation of Fo	oundation Type E1-	2 as per Dwg 505573	- Total struc	cture count:	16	EA			\$ 413,733.17		\$ 25,858.32	2,793.12	\$ 28,651.44	Ψ	, -
S1-C48 Ass	ssembly and Installation of Four	ndation Type E1-2 as	s per Dwg 505573-462	22-42DD-0026	for Tower Type I	1 (surface rock)				\$ 413,733.17		\$ 25,858.32	2,793.12	\$ 28,651.44	•	,-
S1-C48 Ass	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) =	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I)	22-42DD-0026 Rebar (kg)	for Tower Type Excavation (m3)	E1 (surface rock) BackFill Vol(m3)	#Anchor Holes	· · · · · ·	Hole Dia. (mm)	\$ 413,733.17		\$ 25,858.32	2,793.12	\$ 28,651.44	Ť	,-
S1-C48 Ass Pad: 2.2m x 2.	ssembly and Installation of Four	ndation Type E1-2 as	s per Dwg 505573-462 Grout (I) 165.9	22-42DD-0026 Rebar (kg) 124.3	6 for Tower Type E Excavation (m3) 224.6	E1 (surface rock) BackFill Vol(m3) 222.2	#Anchor Holes	5.0	Hole Dia. (mm) 57.0				2,793.12	\$ 28,651.44	•	,
S1-C48 Ass Pad: 2.2m x 2.	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) =	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9	22-42DD-0026 Rebar (kg) 124.3 each	6 for Tower Type B Excavation (m3) 224.6	E1 (surface rock) BackFill Vol(m3) 222.2 5 17	#Anchor Holes 10.00 3.00	5.0	Hole Dia. (mm) 57.0 .04 \$ 1,321.96	\$ 21,151.29	16	\$ 1,321.96	2,793.12	\$ 28,651.44	•	,-
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation	22-42DD-0026 Rebar (kg) 124.3 each each	S for Tower Type B Excavation (m3) 224.6	E1 (surface rock) BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 3.00 3.00	5.0 \$ 44 \$ 1,143	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56	\$ 21,151.29 \$ 54,824.96	16 16	\$ 1,321.96 \$ 3,426.56	2,793.12	\$ 28,651.44	•	, -
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation	22-42DD-0026 Rebar (kg) 124.3 each each each	5 for Tower Type I Excavation (m3) 224.6	E1 (surface rock) BackFill Vol(m3) 222.2 5 17 5 19 6 19	#Anchor Holes 10.00 3.00 3.00 3.50	5.0 \$ 44' \$ 1,14' \$ 1,14'	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54	16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16	2,793.12	\$ 28,651.44	·	,,,
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations	22-42DD-0026 Rebar (kg) 124.3 each each each each each	5 for Tower Type B Excavation (m3) 224.6 16 16 16	E1 (surface rock) BackFill Vol(m3) 222.2 5 17 19 19 3 19	#Anchor Holes 10.00 3.00 3.00 3.50 1.00	5.0 \$ 44 \$ 1,14: \$ 1,14: \$ 920	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26	16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20	2,793.12	\$ 28,651.44	•	.,,-
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S Install Footi	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup sting, Form and Pour base	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	Rebar (kg) 124.3 each each each each each	5 for Tower Type B Excavation (m3) 224.6	E1 (surface rock) BackFill Vol(m3) 222.2 5 17 6 19 6 19 6 36 6 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80	5.0 \$ 44 \$ 1,14 \$ 1,14 \$ 92 \$ 93	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20 .63 \$ 10,106.32	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26 \$ 161,701.16	16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32	2,793.12	\$ 28,651.44	·	
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S Install Footi Backfill & C	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup sting, Form and Pour base	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	Rebar (kg) 124.3 each each each each each each each	5 for Tower Type B Excavation (m3) 224.6 16 16 16 16 16 16	E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47	5.0 \$ 44 \$ 1,14 \$ 1,14 \$ 92 \$ 93 \$ 95	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20 .63 \$ 10,106.32 .25 \$ 4,286.76	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26 \$ 161,701.16 \$ 68,588.19	16 16 16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76	2,793.12	\$ 28,651.44	•	.,-
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S Install Footi Backfill & C Cleanup	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup sting, Form and Pour base Compact	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	5 for Tower Type B Excavation (m3) 224.6 16 16 16 16 16 16 16 16 16	E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 26 26 27 28 20 21 22	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	5.0 \$ 44 \$ 1,14 \$ 1,14 \$ 92 \$ 93 \$ 95 \$ 19	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20 .63 \$ 10,106.32 .25 \$ 4,286.76 .96 \$ 389.92	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26 \$ 161,701.16 \$ 68,588.19 \$ 6,238.74	16 16 16 16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92	2,793.12	\$ 28,651.44	•	.,-
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S Install Footi Backfill & C	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup sting, Form and Pour base Compact	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	Rebar (kg) 124.3 each each each each each each each each	5 for Tower Type B Excavation (m3) 224.6 16 16 16 16 16 16 16 16 16	E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 26 24 21 22 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47	5.0 \$ 44 \$ 1,14 \$ 1,14 \$ 92 \$ 93 \$ 95 \$ 19 \$ 93	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20 .63 \$ 10,106.32 .25 \$ 4,286.76 .96 \$ 389.92 .63 \$ 1,403.44	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26 \$ 161,701.16 \$ 68,588.19 \$ 6,238.74 \$ 22,455.03	16 16 16 16 16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 1,403.44	2,793.12	\$ 28,651.44		.,-
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S Install Footi Backfill & C Cleanup	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup sting, Form and Pour base Compact	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	5 for Tower Type B Excevation (m3) 224.6 16 16 16 16 16 16 16 16 16	E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 26 24 21 22 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	5.0 \$ 44 \$ 1,14 \$ 1,14 \$ 92 \$ 93 \$ 95 \$ 19 \$ 93	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20 .63 \$ 10,106.32 .25 \$ 4,286.76 .96 \$ 389.92 .63 \$ 1,403.44 - \$ -	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26 \$ 161,701.16 \$ 68,588.19 \$ 6,238.74 \$ 22,455.03	16 16 16 16 16 16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ -	2,793.12	\$ 28,651.44		
S1-C48 Ass Pad: 2.2m x 2. Haul Excavate Prepare Ro Rock drill S Install Footi Backfill & C Cleanup	ssembly and Installation of Four 2.4m x 0.4m Concrete (m3) = 2.43 cock Surface Setup sting, Form and Pour base Compact	ndation Type E1-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	Rebar (kg) 124.3 each each each each each each each each	5 for Tower Type B Excavation (m3) 224.6 16 16 16 16 16 16 16 16 16	E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 26 24 21 22 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	5.0 \$ 44 \$ 1,14 \$ 1,14 \$ 92 \$ 93 \$ 95 \$ 19 \$ 93	Hole Dia. (mm) 57.0 .04 \$ 1,321.96 .76 \$ 3,426.56 .76 \$ 4,003.16 .20 \$ 920.20 .63 \$ 10,106.32 .25 \$ 4,286.76 .96 \$ 389.92 .63 \$ 1,403.44	\$ 21,151.29 \$ 54,824.96 \$ 64,050.54 \$ 14,723.26 \$ 161,701.16 \$ 68,588.19 \$ 6,238.74 \$ 22,455.03	16 16 16 16 16 16 16 16	\$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 1,403.44 \$ - \$ -	2,793.12	\$ 28,651.44		



	NALCOR 350 kV HVdc Line Construction Fro	nt 1 (Labrador)					Cre	ew Cost						Total Unit Cost	
Payment			L	Inits		Hours per								Manhours and	
Item	Description			Total	Crew No.	unit	Hourly	Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
					10.110					A 075 045 04		400.00		A 040.00	
V::C49	S1-C49 Installation and Testing of 25M Mechanical S1-C49 Installation and Testing of 25M Mechanical Ro	Rock Anchor as per design	I otal structu	re count:	10443	LM				\$ 1,975,845.30)	\$ 189.20	\$ 23.48	\$ 212.69	\$ 245,237.77
	51-049 Installation and Testing of 25W Wechanical Ro	Grout (I)	Grout (unit)	cai specification		#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)	A					
		2.6	0.3			1.00	1.0		50.0						
	Drill and Install Rock Anchors	Rock Foundations	each	10443	36	0.14	\$	920.20	\$ 130.14	\$ 1,359,015.08	3 10443	\$ 130.14			
	Grout Anchor	Grout Crew	each	10443	23	0.15	\$	393.78	\$ 59.07						
			each	10443			\$			\$ -	10443				
			each	10443			\$	-	\$ -	\$ -	10443				
			each	10443			\$	-	\$ -	\$ -		\$ -			
			each	10443			\$	-	\$ -	\$ -		\$ -			
			each	10443			\$			\$ -	10443				
			each	10443			\$			\$ -					
			each	10443			\$	_		\$ -	10443				
			each	10443			\$		\$ -		10443				
									\$ 189.20	\$ 1,975,845.30	5	\$ 189.20			
VCE0	C4 C50 Installation and Tasting of 20M Machanical	Dools Anchor on you dool on	Total atmosts	ro count	618	LM				\$ 122,372.72		\$ 198.01	\$ 30.52	\$ 228.53	\$ 18,860.81
V::C50	S1-C50 Installation and Testing of 29M Mechanical S1-C50 Installation and Testing of 29M Mechanical Ro	ek Anchor as per design drawi	nge and tochn	sel eposification	010	LIVI				122,312.12	4	à 190.01	\$ 30.52	\$ 220.53	\$ 10,000.01
	31-030 Installation and Testing of 29M Mechanical No	Grout (I)	Grout (unit)	cai specification		#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)						
		3.3	0.3			1.00	1.0		57.0						
	Drill and Install Rock Anchors	Rock Foundations	each	618	36	0.15	\$	920.20		\$ 85.869.69	618	\$ 138.95			
	Grout Anchor	Grout Crew	each	618	23	0.15	\$		\$ 59.07						
			each	618			\$			\$ -	618	\$ -			
			each	618			\$		\$ -	\$ -	618				
			each	618			\$	- \	\$ -	\$ -	618	\$ -			
			each	618			\$	-		\$ -	618				
			each	618		_	\$		_	\$ -	618				
			each	618		4	\$		Ψ	\$ -	618				
			each	618			\$		*	\$ -	618				
			each	618			\$			\$ -	618	-			
									\$ 198.01	\$ 122,372.72		\$ 198.01			
V::C51	S1-C51 Installation and Testing of 32M Mechanical	Pock Anchor as nor design	Total structu	re count:	0	LM				\$ -		\$ 214.99	\$ 37.28	\$ 252.27	l c _
V031	S1-C51 Installation and Testing of 32M Mechanical Ro	ck Anchor as per design drawi	ngs and techni	cal specification						Ψ		ψ 214.55	Ψ 01.20	ψ 202.27	•
		Grout (I)	Grout (unit)			#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)						
		4.1	0.4			1.00	1.0		63.0						
	Drill and Install Rock Anchors	Rock Foundations	each	0	36	0.16	\$	920.20	\$ 146.08		0	\$ -			
	Grout Anchor	Grout Crew	each	0	23	0.18	\$	393.78	\$ 68.91	\$ -	0				
			each	0	_		\$		1	\$ -	0	\$ -			
			each	0			\$		•	\$ -	0				
			each	0			\$		•	\$ -	0	\$ -			
			each	0			\$			\$ -	0				
			each	0			\$	-	Ψ	\$ -	0				
			each each	0			\$ \$		Ψ	\$ -	0				
			each	0			\$,	\$ - \$ -					
			Eacii	U			φ		\$ 214.99	1		\$ -			
									Ψ Z14.33	Ψ -		Ψ -			



	NALCOR 350 kV HVdc Line Construction Front	: 1 (Labrador)					Crew Cost						Total Unit Cost	
Payment			l	Jnits		Hours per							Manhours and	
Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V050	O4 O50 least-listing and Tasting of 40M Mashanian D		Total atmosts		22044	LM			¢		\$ 232.73	40.00	¢ 070.70	l
V::C52	S1-C52 Installation and Testing of 43M Mechanical R S1-C52 Installation and Testing of 43M Mechanical Rock				22944	LIVI			\$ 5,339,865.46		\$ 232.73	46.03	\$ 278.76	\$ 1,056,056.83
	31-032 mstallation and resting of 45W Mechanical Noch	Grout (I)	Grout (unit)	icai specification		#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
		5.0	0.5			1.00	1.0	70.0						
	Drill and Install Rock Anchors	Rock Foundations	each	22944	36	0.17	\$ 920.20	\$ 153.98	\$ 3,532,906.55	22944	\$ 153.98			
	Grout Anchor	Grout Crew	each	22944	23	0.20	\$ 393.78	\$ 78.76		22944	\$ 78.76			
			each	22944			\$ -		\$ -	22944	\$ -			
			each	22944			\$ -	\$ -	\$ -	22944				
			each	22944			\$ -		\$ -					
			each	22944			\$ -		\$ -	22944				
			each	22944			\$ -	\$ -		22944				
			each	22944			\$ -	\$ -						
			each	22944			\$ -		\$ -	22944				
			each	22944			-	\$ -		22944				
								\$ 232.73	\$ 5,339,865.46)	\$ 232.73			
V::C53	S1-C53 Installation and Testing of 57M Mechanical R	ock Anchor as nor design	Total structu	ire count:	296	LM			\$ 75,855.53		\$ 256.27 \$	64.71	\$ 320.98	\$ 19,154.46
V033	S1-C53 Installation and Testing of 57M Mechanical Rock				230				7 3,033.33		ψ 250.21 ψ	04.71	ψ 520.50	Ψ 13,134.40
	01-000 mstallation and resting of 57% Medianical Noci	Grout (I)	Grout (unit)	icai specification		#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
		7.0	0.6			1.00	1.0	83.0						
	Drill and Install Rock Anchors	Rock Foundations	each	296	36	0.18		\$ 167.67	\$ 49,630.05	296	\$ 167.67			
	Grout Anchor	Grout Crew	each	296	23	0.23	\$ 393.78	\$ 88.60	\$ 26,225.48	296	\$ 88.60			
			each	296			\$ -		\$ -	296	\$ -			
			each	296			\$ -	\$ -	\$ -	296				
			each	296			\$ -	\$ -	\$ -	296	•			
			each	296			\$ -		\$ -	296	\$ -			
			each	296			-		\$ -	296				
			each	296		4	-	Ψ	\$ -	296	\$ -			
			each	296			\$ -	т	\$ -	296				
			each	296 296			\$ -	•	\$ -	296 296				
			each	290			5 -	T	\$ 75.855.53					
			381	199.0958803				Φ 230.21	\$ 75,855.53)	\$ 256.27			
V::C54	S1-C54 Installation and Testing of 64M Mechanical R	ock Anchor as ner design			40	LM			\$ 10,921.61		\$ 273.04	76.09	\$ 349.13	\$ 3.043.46
*	S1-C54 Installation and Testing of 64M Mechanical Rock								10,021101		2.0.0.	1 0.00	V 0.01.0	0,010110
	Č	Grout (I)	Grout (unit)	·		#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
		8.3	0.7	<u> </u>		1.00	1.0	90.0						
	Drill and Install Rock Anchors	Rock Foundations	each	40	36	0.19	7 0-0:00	\$ 174.60			\$ 174.60			
	Grout Anchor	Grout Crew	each	40	23	0.25	\$ 393.78	\$ 98.44	· /					
			each	40			\$ -	Ÿ	\$ -	40				
			each	40	_		\$ -	•	\$ -	40				
			each	40			\$ -	•	\$ -	40				
			each	40			\$ - \$ -		\$ - \$ -	40 40	\$ - e			
			each each	40			\$ - \$ -	7	\$ - \$ -	40				
			each	40			\$ -	т	\$ -	40				
			each	40			\$ -	•	\$ -	40				
			GGGII	40			<u> </u>	•	\$ 10,921.61		\$ 273.04			
								210.04	10,021.01		Ţ			



NALCOR 350 kV HVdc Line Con	nstruction Front 1 (Labrador)					Crew Cost	1						Total Unit Cost	
Description		U	Jnits Total	Cuana Ma	Hours per	Harmly D-4-	Limit On 1	C	ıbtotal Uı	nits	Unit Cost	Materials	Manhours and Materials	Total Materials
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Sui	ibiotai Oi	TIILS	Unit Cost	iviateriais	Materials	Total Materials
H-Pile Foundations														
	lation of Foundation Type A1-3 as per Do	wa Total structu	re count:	7	EA			\$	16,473.78	\$	2,353.40 \$	44,266.30	\$ 46,619.70	\$ 309,8
S1-C55 Design, Assembly and Installat	tion of Foundation Type A1-3 as per Dwg 5	05573-4622-42DD	0-0037 for Towe	r Type A1 includ		nstallation of steep cap						•	,	
				_		1.								
Site Preparation	Site Preparation	each	7	2	2.00			.24 \$	9,451.71	7 \$	1,350.24			
supervisor	Supervisory	each	7	29	6.00	•	_	.15 \$	7,022.07	7 \$ 7 \$	1,003.15			
		each each	7			\$ -	-	- \$ - \$		7 \$	-			
		each				\$ -	<u> </u>	- \$	-	7 \$				
		GGGH	·		<u> </u>	Ψ	7		16,473.78	\$	2,353.40			
		ı					, , , , , ,				,			
S1-C56 Design, Assembly and Install	lation of Foundation Type A2-3 as per Dy	wg Total structu	re count:	3	EA			\$	7,060.19	\$	2,353.40 \$	44,266.30	\$ 46,619.70	\$ 132,7
S1-C56 Design, Assembly and Installat	tion of Foundation Type A2-3 as per Dwg 5	05573-4622-42DD	0-0037 for Towe	r Type A2 includ	ing supply and i	nstallation of steep cap								
lau a						075	0 0 4 054	24 0	4.050.50	2 4	4.050.04			
Site Preparation	Site Preparation	each	3	2	2.00	\$ 675.		.24 \$	4,050.73	3 \$	1,350.24			
supervisor	Supervisory	each	3	29	6.00	\$ 167.	Δ.	.15 \$	3,009.46	3 \$	1,003.15			
		each each	<u> </u>			\$	•	- \$ - \$	-	3 \$	-			
		each	3			\$ -	\$	- \$	-	3 \$	-			
		each	3			\$ -	\$	- \$	-	3 \$	-			
		each	3			\$ -		- \$	-	3 \$	-			
		•					\$ 2,350	.40 \$	7,060.19	\$	2,353.40			
- · · · · · · · · · · · · · · · · · · ·		wu Tolai Siruciu	re count:	0	EA			\$	-	\$	2.353.40 \$	44.266.30	5 46.619.70	3
	lation of Foundation Type A3-3 as per Dv tion of Foundation Type A3-3 as per Dwg 5	05573-4622-42DD	ore count: 0-0037 for Towe		EA ling supply and i	nstallation of steep cap		*	-	\$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
S1-C57 Design, Assembly and Installat Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	05573-4622-42DD	o-0037 for Towe	r Type A3 includ				.24 \$	-	0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
	tion of Foundation Type A3-3 as per Dwg 5	05573-4622-42DD	0-0037 for Towe	r Type A3 includ	ling supply and i	\$ 675.	9 \$ 1,003	.24 \$.15 \$		0 \$		44,266.30	\$ 46,619.70	•
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	05573-4622-42DD each each each	0-0037 for Towe	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,003	.24 \$.15 \$ - \$	- - -	0 \$ 0 \$	- - -	44,266.30	\$ 46,619.70	\$
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	each each each each each	0-0037 for Towe	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,000	.24 \$.15 \$ - \$ - \$	- - - -	0 \$ 0 \$ 0 \$	- - - -	44,266.30	\$ 46,619.70	•
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	each each each each each each	0-0037 for Towe 0 0 0 0 0	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,003 \$ \$.24 \$15 \$	- - - -	0 \$ 0 \$ 0 \$ 0 \$	- - - - -	44,266.30	\$ 46,619.70	*
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	each each each each each each each each	0-0037 for Towe	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,000 \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -	44,266.30	\$ 46,619.70	•
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	each each each each each each	0-0037 for Towe 0 0 0 0 0	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,000 \$ \$ \$ \$ \$.24 \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$	- - - - -	44,266.30	\$ 46,619.70	•
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	each each each each each each each each	0-0037 for Towe 0 0 0 0 0	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,000 \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -	44,266.30	\$ 46,619.70	•
Site Preparation	tion of Foundation Type A3-3 as per Dwg 5	each each each each each each each each	0-0037 for Towe 0 0 0 0 0	r Type A3 includ	ing supply and	\$ 675.	9 \$ 1,000 \$ \$ \$ \$ \$.24 \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -	44,266.30	\$ 46,619.70	•
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Site Preparation supervisor S1-C58 Design, Assembly and Installs S1-C58 Design, Assembly and Installat	Site Preparation Supervisory Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 0 0 or Type A4 included 2 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EA ling supply and	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 2,350 2 \$ 1,350 9 \$ 1,000 \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$			
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Site Preparation supervisor S1-C58 Design, Assembly and Installs S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installat	Site Preparation Supervisory Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 Type A4 included 2 29 29 29 29 29 29 29 29 29 29 29 29 2	EA ling supply and 2.00 6.00 2.00 6.00 2.00 6.00 EA	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ 675. \$ 167. \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 2,350 2 \$ 1,350 9 \$ 1,000 \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
Site Preparation supervisor S1-C58 Design, Assembly and Installat S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installat S1-C59 Design, Assembly and Installat	Iation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Iation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Iation of Foundation Type B1-3 as per Dwg 5	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 29 29 29 29 29 29 29 29 Type B1 included Type B1 include Type B1 included Type B1 include Type B1 include Type B1 inc	EA ling supply and supply	s 675. s 167. s - s - s - s - s - s - s - s - s - s -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
Site Preparation supervisor S1-C58 Design, Assembly and Installs S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installat	Iation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Iation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Iation of Foundation Type B1-3 as per Dwg 5	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 29 29 29 29 29 Type B1 included 2 29 29 29 29 29 29 29 29 29 29 29 29 2	EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 EA ling supply and 2.00 EA ling supply and 3.00 EA ling supply supply and 3.00 EA ling supply	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 2,350 2 \$ 1,350 9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
Site Preparation supervisor S1-C58 Design, Assembly and Installat S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installat S1-C59 Design, Assembly and Installat	Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Is Preparation Supervisory Is Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Ilation of Foundation Type B1-3 as per Dwg 5	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 29 29 29 29 29 29 29 29 Type B1 included Type B1 include Type B1 included Type B1 include Type B1 include Type B1 inc	EA ling supply and supply	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ 167. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
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Site Preparation supervisor S1-C58 Design, Assembly and Installs S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installs S1-C59 Design, Assembly and Installat Site Preparation	Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Ilation of Foundation Type B1-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Site Preparation	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 29 29 29 29 29 Type B1 included 2 29 29 29 29 29 29 29 29 29 29 29 29 2	EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 EA ling supply and 2.00 EA ling supply and 3.00 EA ling supply supply and 3.00 EA ling supply	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ 167. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
Site Preparation supervisor S1-C58 Design, Assembly and Installs S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installs S1-C59 Design, Assembly and Installat Site Preparation	Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Ilation of Foundation Type B1-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Site Preparation	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 29 29 29 29 29 Type B1 included 2 29 29 29 29 29 29 29 29 29 29 29 29 2	EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 EA ling supply and 2.00 EA ling supply and 3.00 EA ling supply supply and 3.00 EA ling supply	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ 167. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$
Site Preparation supervisor S1-C58 Design, Assembly and Installs S1-C58 Design, Assembly and Installat Site Preparation supervisor S1-C59 Design, Assembly and Installs S1-C59 Design, Assembly and Installat Site Preparation	Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type A4-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Ilation of Foundation Type B1-3 as per Dwg 5 Site Preparation Supervisory Ilation of Foundation Type B1-3 as per Dwg 5 Site Preparation	each each each each each each each each	0-0037 for Towe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type A3 included 2 29 29 29 29 29 29 29 Type B1 included 2 29 29 29 29 29 29 29 29 29 29 29 29 2	EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 6.00 EA ling supply and 2.00 EA ling supply and 2.00 EA ling supply and 3.00 EA ling supply supply and 3.00 EA ling supply	\$ 675. \$ 167. \$ - \$ - \$ - \$ - \$ 167. \$ 167. \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 1,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.24 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,353.40 \$	44,266.30	\$ 46,619.70	\$



ľ	NALCOR 350 kV HVdc Line Const	lidelion i font i (Labrador)					Crew Cost				l	l	Total Unit Cost	
				Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
								\$ 2,353.40 \$	-		-			
S	S1-C60 Design, Assembly and Installat	tion of Foundation Type B2-3 as per Dw	g Total struct	ure count:	0	_ EA		\$			5,362.85	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C60 Design, Assembly and Installation	n of Foundation Type B2-3 as per Dwg 50	5573-4622-42D	D-0046 for Tower	Type B2 includir	ng supply and in	stallation of steep cap.							
_				- 1										
_	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12			0 5	-			
s	supervisor	Supervisory	each	0	29	24.00	\$ 167.19		-	0 9				
L			each	0				\$ - \$		0 9				
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								\$ 5,362.85 \$	-		-			
S	S1-C61 Design, Assembly and Installat	tion of Foundation Type C1-3 as per Dw	g Total struct	ure count:	0	EA		\$	-		5,362.85	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C61 Design, Assembly and Installation	n of Foundation Type C1-3 as per Dwg 50	5573-4622-42D	D-0046 for Tower	Type C1 includi	ng supply and in	stallation of steel cap.							
_			.											
	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12		-	0 9	-			
s	supervisor	Supervisory	each	0	29	24.00	\$ 167.19		-	0 9				
<u> </u>			each	0				\$ - \$	-	0 9				
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								\$ 5,362.85 \$	-		-			
S	S1-C62 Design, Assembly and Installation	tion of Foundation Type C2-3 as per Dw n of Foundation Type C2-3 as per Dwg 50	g Total struct	ure count: D-0046 for Tower	0 Type C2 includi	EA ng supply and in		\$	-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C62 Design, Assembly and Installation Site Preparation	tion of Foundation Type C2-3 as per Dw n of Foundation Type C2-3 as per Dwg 50 Site Preparation	5573-4622-42D each	D-0046 for Tower	Type C2 including	ng supply and in	\$ 675.12	\$ 1,350.24 \$	-	0 5	· -	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C62 Design, Assembly and Installation	n of Foundation Type C2-3 as per Dwg 50	each each	D-0046 for Tower 0 0	Type C2 includi	ing supply and in	\$ 675.12 \$ 167.19	\$ 1,350.24 \$ \$ 4,012.61 \$		0 5	- -	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C62 Design, Assembly and Installation Site Preparation	n of Foundation Type C2-3 as per Dwg 50	each each each	D-0046 for Tower 0 0 0	Type C2 including	ng supply and in	\$ 675.12 \$ 167.19 \$ -	\$ 1,350.24 \$ \$ 4,012.61 \$ \$ - \$	- - -	0 5	- - - -	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C62 Design, Assembly and Installation Site Preparation	n of Foundation Type C2-3 as per Dwg 50	each each each each each	D-0046 for Tower 0 0 0 0 0	Type C2 including	ng supply and in	\$ 675.12 \$ 167.19 \$ - \$ -	\$ 1,350.24 \$ \$ 4,012.61 \$ \$ - \$ \$ \$ - \$	- - -	0 5 0 5 0 5	3 - 3 - 3 -	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C62 Design, Assembly and Installation Site Preparation	n of Foundation Type C2-3 as per Dwg 50	each each each each each each each	D-0046 for Tower 0 0 0 0 0 0	Type C2 including	ng supply and in	\$ 675.12 \$ 167.19 \$ - \$ -	\$ 1,350.24 \$ \$ 4,012.61 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	- - - -	0 5	3 - 3 - 3 - 3 -	\$ 208,457.28	\$ 213,820.13	\$
S	S1-C62 Design, Assembly and Installation Site Preparation	n of Foundation Type C2-3 as per Dwg 50	each each each each each each each each	D-0046 for Tower 0 0 0 0 0	Type C2 including	ng supply and in	\$ 675.12 \$ 167.19 \$ - \$ - \$ -	\$ 1,350.24 \$ \$ 4,012.61 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$	- - - - -	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	- - - - - - - -	\$ 208,457.28	\$ 213,820.13	\$
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	S1-C62 Design, Assembly and Installation Site Preparation supervisor S1-C63 Design, Assembly and Installation S1-C63 Design, Assembly and Installation Site Preparation supervisor S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation Site Preparation	Site Preparation Supervisory tion of Foundation Type D1-3 per Dwg on of Foundation Type D1-3 per Dwg on of Foundation Type D1-3 per Dwg Site Preparation Supervisory tion of Foundation Type D2-3 as per Dw on of Foundation Type D2-3 as per Dwg on of Foundation Type D2-3 as per Dwg on of Foundation Type D2-3 as per Dwg 50	each each each each each each each each	D-0046 for Tower 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ope D1 including 2 29 4 Type D2 including 2 29	EA supply and in 2.00 24	\$ 675.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,350.24 \$ 4,012.61 \$ \$ - \$ \$ \$ 5,362.85 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5,362.85 5,362.85 5,362.85 1,350.24 4,012.61	\$ 208,457.28	\$ 213,820.13	\$
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S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings and technical specifications (length in bog not considered) each 240	NALCOR 350 kV HVdc Line C	onstruction Front 1 (Labrador)					Crew Cost							Total Unit Cost		
St-O65 Design, Assembly and Installation of Foundation Type E1-3 as per Dwg Total structure count: 0		,														
S1-C68 Design, Assembly and installation of Foundation Type E1 as per Dog 905873-8022-400-1048 for Tower Type E1 including supply and installation of residue control. Site Proporation each 0 29 24 00 \$ 875.10 \$ 4,012 01 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost		Materials	Materials	Total Materials	
Second Common C	S1-C65 Design, Assembly and Inst S1-C65 Design, Assembly and Insta	tallation of Foundation Type E1-3 as per Double E1-3 as per Double E1-3 as per Dwg 5	wg Total struct	ture count: DD-0046 for Towel			allation of steel cap.		\$	-	\$ 5,362	.85 \$	208,457.28	\$ 213,820.13	\$	
Supervisor Sup	Site Preparation	Site Preparation	each	0	2	2.00	675.12	\$ 1.350.24	\$	- 1 0	\$	_				
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St-C66 Rock anchor to be installed with St-C60 to St-C65 Item above as per the design drawings and technical specifications (length in bog not considered) St-C66 Rock anchor to be installed with St-C60 to St-C65 Item above as per the design drawings and technical specifications (length in bog not considered)			each	0		,										
each 240	S1-C66 Rock anchor to be installed	d with S1-C60 to S1-C65 item above as per with S1-C60 to S1-C65 item above as per the	e design drawings	s and technical spe	ecifications (lengt	th in bog not consi							468.58	\$ 468.58	\$	11
each 240	S1-C66 Rock anchor to be installed	d with S1-C60 to S1-C65 item above as per with S1-C60 to S1-C65 item above as per the	e design drawings each	s and technical spe	ecifications (lengt	th in bog not consi	-	\$ - 9	\$	- 240	\$	- — · — · — · — · — · — · — · — · — · —	468.58	\$ 468.58	\$	11
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S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT Control Con	S1-C66 Rock anchor to be installed	d with S1-C60 to S1-C65 item above as per with S1-C60 to S1-C65 item above as per the	e design drawings each each each each each each each eac	240 240 240 240 240 240 240 240 240 240	ecifications (lengt	th in bog not consi		\$ - \$ \$ - \$	5 5 5 5 6 6	- 240 - 240 - 240 - 240 - 240 - 240 - 240 - 240	\$ \$ \$ \$ \$ \$	- - - - - -	468.58	\$ 468.58	\$	112
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	NALCOR 350 kV HVdc Line Construction Fro	nt 1 (Labrador)					Crew Cost						Total Unit Cost	
Payment				Units		Hours per							Manhours and	
Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Daniel Daniel Call													
V-H12	Bog and Poor Soil		T-1-1-1-1		40000				t 4400 400 C		t 440.00	. 054.07	¢ 000 50	d 0.540.005.00
V::C68	S1-C68 Supply and Installation of Cribs for excavate S1-C68 Supply and Installation of Cribs for excavation		Total struc		10000	M2	on oo nor Dwg 505572 460		\$ 4,422,186.67		\$ 442.22	\$ 254.37	\$ 696.59	\$ 2,543,685.00
	51-Coo Supply and installation of Cribs for excavation	i protection of tower types A	I, AZ, A3, A4, D	1, 62, 61, 62, 61,	DZ, ET TOT ATTY LY	pe or Foundati	on as per Dwg 505575-462	2-42DD-0009 and						
	Hauling	Hauling	each	10000	1	0.30	\$ 441.04	\$ 132.31	\$ 1,323,125.95	10000	\$ 132.31			
	Assembly	Grillage Installation	each	10000	20			\$ 125.34						
	Installation	Grillage Installation	each	10000	20	0.05	\$ 1,002.72	\$ 50.14			\$ 50.14			
	extra excavation and De-watering	Found Excavation	each	10000	19	0.10	\$ 1,143.76	\$ 114.38						
	Remove Top section	Grillage Installation	each	10000	20	0.02	\$ 1,002.72	\$ 20.05	\$ 200,543.71		\$ 20.05			
								\$ 442.22	4, 422,186.67	7	\$ 442.22			
V-H13	Earthwork													
V::C69	S1-C69 Transportation of native backfill		Total struc	ture count:	2000	KM			\$ 98,009.33		\$ 49.00	\$ -	\$ 49.00	-
	S1-C69 Transportation of native backfill					_					,			
	Hauling	Foundation Haul	each	2000	17	0.11	\$ 441.04	\$ 49.00	\$ 98,009.33					
		<u> </u>	each	2000			\$ -		\$ -	2000				
			each	2000			\$ -/		\$	2000				
			each	2000			\$ -		\$	2000				
			each	2000			\$ -		\$ <u>-</u>	2000	\$ -			
			each	2000			\$ -	\$ -	*	2000				
			each	2000 2000			\$ -	\$ -		2000				
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			each	2000		1	\$ -	•	\$ -	2000				
							\$ -	\$ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*	2000	\$ - \$ 49.00			
VC70	S1 C70 Supply and transportation of approved fill f	from an alternate	each	2000		M2 * KM	\$ -	\$ 49.00	\$ 98,009.33	2000	\$ 49.00	¢ 106.61	¢ 122.49	¢ 242240000
V::C70	S1-C70 Supply and transportation of approved fill from		each Total struc	2000 ture count:	20000	M3 * KM	\$ -	\$ 49.00	*	2000		\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill f S1-C70 Supply and transportation of approved fill from		each Total struc	2000 ture count:		M3 * KM	\$	\$ 49.00	\$ 98,009.33	2000	\$ 49.00	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	each Total structure seed material/roa	2000 ture count: ad gravel	20000			\$ 49.00	\$ 98,009.33 \$ 537,408.38	2000	\$ 49.00 \$ 26.87	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70			Total structed material/roated material	ture count: ad gravel		M3 * KM		\$ 49.00 \$ 26.87	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38	2000	\$ 49.00 \$ 26.87 \$ 26.87	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	each Total structure seed material/roa	2000 ture count: ad gravel 20000 20000	20000			\$ 49.00 \$ 26.87 \$ -	\$ 98,009.33 \$ 537,408.38	2000 3 3 20000 20000	\$ 49.00 \$ 26.87 \$ 26.87 \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	Total structure seed material/roadesed material/	2000 ture count: ad gravel 20000 20000 20000	20000			\$ 49.00 \$ 26.87 \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ -	2000 3 3 3 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	Total structure seed material/roadesed material/	2000 ture count: ad gravel 20000 20000 20000 20000	20000 46			\$ 49.00 \$ 26.87 \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ -	2000 3 3 3 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	Total structures material/roadesed material/road	2000 ture count: ad gravel 20000 20000 20000	20000 46		\$ 241.83 \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ -	2000 3 3 3 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	Total structures material/road each each each each each each each	2000 ture count: ad gravel 20000 20000 20000 20000 20000	20000 46		\$ 241.83 \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	Total structures material/road each each each each each each each each	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 20000	20000 46		\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	Total structures material/road each each each each each each each each	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000	20000 46		\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
V::C70	S1-C70 Supply and transportation of approved fill from	n an alternate source/proces	each Total structuresed material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 20000	20000 46		\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ -	\$ 106.61	\$ 133.48	\$ 2,132,100.00
	S1-C70 Supply and transportation of approved fill from Hauling	n an alternate source/proces	each Total structuresed material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 20000	20 000	0.11	\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
V::C70 V::C71	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation	n an alternate source/proces	each Total structuresed material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 20000	20000 46		\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling	n an alternate source/proces	each Total structures material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 20000	20 000	0.11	\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	n an alternate source/proces	Total structure each each each each each each each eac	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 ture count:	20 000 46	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation	n an alternate source/proces	Total structure each each each each each each each eac	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 ture count:	20 000 46 1100	0.11	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 3	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,143.76			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	Total structure each each each each each each each eac	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 ture count:	20 000 46 1100	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 3 3 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	Total structures and material/road structures and material and	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 1100 1100	20000 46 1100	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 3 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each Total structuresed material/roa each each each each each each each each each	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 1100 1100 1100	20000 46 1100 19	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ 537,408.38 \$ 1,258,135.57 \$ 1,258,135.57	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each each each each each each each each	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 1000 1100 1100 1100 1100	20000 46 1100 19	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ \$ 1,258,135.54 \$ 1,258,135.54	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each each each each each each each each	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 20000 1000 1100 1100 1100 1100 1100	20000 46 1100 19	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ 537,408.38 \$ 1,258,135.57 \$ 1,258,135.57	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each Total structures material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 1000 20000 1100 1100 1100 1100 1100 1100	20000 46 1100	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ 537,408.38 \$ 1,258,135.56 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each Total structures material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 1000 20000 1100 1100 1100 1100 1100 1100 1100 1100	20000 46 1100	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ 537,408.38 \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each Total structures material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 1000 20000 1100 1100 1100 1100 1100 1100	20000 46 1100	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C70 Supply and transportation of approved fill from Hauling S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Camp Haul	each Total structures material/roa each each each each each each each ea	2000 ture count: ad gravel 20000 20000 20000 20000 20000 20000 20000 1000 20000 1100 1100 1100 1100 1100 1100 1100 1100	20000 46 1100	0.11 M3	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 98,009.33 \$ 537,408.38 \$ 537,408.38 \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ 537,408.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2000 3 20000 20000 20000 20000 20000 20000 20000 20000 20000 3 1100 1100 1100 1100 1100 1100 1100	\$ 49.00 \$ 26.87 \$ 26.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			



Ī	NALCOR 350 kV HVdc Line Construction Fi	ront 1 (Labrador)					Crew Cost						Total Unit Cost	
nt .	D			Units		Hours per			0.1.1.1				Manhours and	T
Ŀ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
9	S1-D Tower Assembly and Erection (S1-E)v)		Tower Setting	n Ratio	0.00	Helicopter	100%	Crane					
	Assembly and Erection of Suspension T	•		TOWER OCILITY	, italio	0.00	Пенсорие	100 /0	Orane					
	S1-D1 Assembly and Erection of Suspension Tov		Total struc	ture count:	40	EA			\$ 1,870,163.33		\$ 46,754.08	e _	\$ 46,754.08	e e
	S1-D1 Assembly and Erection of Suspension Tower				40				φ 1,070,103.30		φ 40,734.00	φ -	φ 40,754.00	, 4
•	· · · · · · · · · · · · · · · · · · ·	14925 Total Tower Height(ft) =		Section Weight (lb) =	13999									
,	Site Preparation	Site Preparation	each	40		2.00	\$ 675.12	\$ 1,350.24	\$ 54,009.80	40	\$ 1,350.24			
<u> </u>	Haul	Hauling	each	40		7.37	\$ 441.04							
;	Setup Blocks	Blocking Crew	each	40	3	2.00	\$ 281.84	\$ 563.68	\$ 22,547.38					
/	Assemble Tower	Lattice Assembly	each	40	4	24.00	\$ 1,183.92	\$ 28,410.51	\$ 1,136,420.39	40	\$ 28,410.51			
I	Install Guy Strand	Guy Install	each	40		2.00	\$ 1,258.65	\$ 2,517.30	\$ 100,691.98					
I	Helicopter Set	HL Helicopter	each	40	27	0.00	\$ 21,899.72	\$ -	\$ -	40	\$ -			
(Crane Set	Y- Tower Erection	each	40		2.50	\$ 1,482.09							
<u> </u>	Plumb Tower	Tower Plumb	each	40		2.00	\$ 913.00							
_	haul Insulators and Travellers	Haul Travellers&Glass	each	40		2.00	\$ 636.64							
	Hang Travellers	Hang Travellers	each	40		1.50	\$ 1,444.07							
L	Tie -in	Tie-in	each	40	12	2.50	\$ 676.30							
	Total C	ost = \$ 2.877	per pound					\$ 46,754.08	\$ 1,870,163.33		\$ 46,754.08			
	O4 D0 Assembly and English of Occurrencies Tec	T !! A.4 4 .5 !!	T-1-1-1-1		00	-			¢ 4 000 070 40		¢ 47.000.44	^	¢ 47,000.4	• •
	S1-D2 Assembly and Erection of Suspension Tov		Total struc		29	EA			\$ 1,386,378.12		\$ 47,806.14	-	\$ 47,806.14	1 \$
•	S1-D2 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) =	Type AT + T.5 as per dwg. 50 5440		Section Weight (lb) =	14465									
Ī	Site Preparation		each	29		2.00	\$ 675.12	\$ 1,350.24	\$ 39,157.10	29	\$ 1,350.24			
-	Haul	Site Preparation	each	29		7.62	\$ 441.04		\$ 97,411.03					
<u> </u>	Setup Blocks	Hauling Blocking Crew	each	29		2.00	\$ 281.84		\$ 16,346.85					
_	Assemble Tower	Lattice Assembly	each	29		24.79	\$ 1,183.92		\$ 851,281.78					
	Install Guy Strand	Guy Install	each	29		2.00	\$ 1,258.65		\$ 73,001.69					
_	Helicopter Set	HL Helicopter	each	29		0.00	\$ 21,899.72		\$ -	29				
	Crane Set	Y-Tower Erection	each	29		2.50	\$ 1,482.09		\$ 107,451.82					
ī	Plumb Tower	Tower Plumb	each	29		2.00	\$ 913.00		\$ 52,954.09		·			
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	29	7	2.00	\$ 636.64		\$ 36,924.97					
Ī	Hang Travellers	Hang Travellers	each	29	8	1.50	\$ 1,444.07		\$ 62,816.91					
-	Tie -in	Tie -in	each	29	12	2.50	\$ 676.30	\$ 1,690.75	\$ 49,031.88	29	\$ 1,690.75			
	Total C	ost = \$ 2.857	per pound				\$ -	\$ -	\$ -	29	\$ -			
								\$ 47,806.14	\$ 1,386,378.12	2	\$ 47,806.14			
								_						
	S1-D3 Assembly and Erection of Suspension Tov				46	EA			\$ 2,226,376.23		\$ 48,399.48	-	\$ 48,399.48	\$
,	S1-D3 Assembly and Erection of Suspension Tower	,			4.4707									
Г		Total Tower Height(ft) =		Section Weight (lb) =	14727	2.00	675.40	¢ 405004	¢ 60.444.05	10	¢ 4.0E0.04			
<u> </u>	Site Preparation	Site Preparation	each	46	_	2.00	\$ 675.12							
	Haul Setup Blocks	Hauling	each	46	_	7.75	\$ 441.04							
-	Assemble Tower	Blocking Crew	each each	46		2.00 25.24	\$ 281.84 \$ 1,183.92	\$ 563.68 \$ 29,886.96	\$ 25,929.49 \$ 1,374,800.23					
	Install Guy Strand	Lattice Assembly Guy Install	each	46		25.24	\$ 1,163.92	\$ 29,866.96						
5			Cacil			0.00	\$ 21,899.72	\$ 2,317.30	\$ 113,793.70	46				
1	,		each	16				Ψ -	Ψ -					
<u> </u>	Helicopter Set	HL Helicopter	each each	46			·	\$ 3,705,24	\$ 170 440 82	46	\$ 3.705.24			
1	Helicopter Set Crane Set	HL Helicopter Y- Tower Erection	each	46	40	2.50	\$ 1,482.09		\$ 170,440.82 \$ 83.996.14					
; ; ;	Helicopter Set	HL Helicopter Y-Tower Erection Tower Plumb	each each	46 46	40 41	2.50 2.00	\$ 1,482.09 \$ 913.00	\$ 1,826.00	\$ 83,996.14	46	\$ 1,826.00			
<u>;</u>	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each	46 46 46	40 41 7	2.50 2.00 2.00	\$ 1,482.09 \$ 913.00 \$ 636.64	\$ 1,826.00 \$ 1,273.27	\$ 83,996.14 \$ 58,570.64	46	\$ 1,826.00 \$ 1,273.27			
	Helicopter Set Crane Set Plumb Tower	HL Helicopter Y-Tower Erection Tower Plumb	each each	46 46	40 41 7 8	2.50 2.00	\$ 1,482.09 \$ 913.00	\$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 83,996.14 \$ 58,570.64 \$ 99,640.62	46 46 46	\$ 1,826.00 \$ 1,273.27 \$ 2,166.10			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Te -in	each each each each	46 46 46 46 46	40 41 7 8	2.50 2.00 2.00 1.50	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 83,996.14 \$ 58,570.64 \$ 99,640.62	46 46 46	\$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75			



ALCOR 350 kV HVdc Line Construction Front 1 escription -D4 Assembly and Erection of Suspension Tower Type -D4 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (Ib) = 16268 te Preparation tull tup Blocks tesemble Tower tstall Guy Strand elicopter Set ane Set umb Tower tul Insulators and Travellers ang Travellers	e "A1 + 4.5" as per	Total struct 505573-4622-43 138 each each each each each each each		1 3	Hours per unit EA 2.00 8.00	\$	Hourly Rate	Unit Cost	Subtotal 1,532,997.81	Units \$	Unit Cost 49,451.54	Materials -	Manhours and Materials \$ 49,451.54	Total Materials
-D4 Assembly and Erection of Suspension Tower Type -D4 Assembly and Erection of Suspension Tower Type "/	A1 + 4.5" as per dwg. 5 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection	005573-4622-43 138 each each each each each each	ture count: 3DD-0042 Section Weight (lb) = 31 31 31	31 15192 2 1 3	2.00 8.00	\$		\$		Units \$				
-D4 Assembly and Erection of Suspension Tower Type "/ Total Tower Weight With Guys and Ext. (Ib) = 16268 te Preparation aul trup Blocks semble Tower stall Guy Strand blicopter Set ane Set umb Tower ul Insulators and Travellers	A1 + 4.5" as per dwg. 5 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection	005573-4622-43 138 each each each each each each	SDD-0042 Section Weight (lb) = 31 31 31 31	15192 2 1 3	2.00 8.00	\$	675.12	\$	1,532,997.81	\$	49,451.54	\$ -	\$ 49,451.54	\$
-D4 Assembly and Erection of Suspension Tower Type "/ Total Tower Weight With Guys and Ext. (Ib) = 16268 te Preparation aul trup Blocks semble Tower stall Guy Strand blicopter Set ane Set umb Tower ul Insulators and Travellers	A1 + 4.5" as per dwg. 5 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection	005573-4622-43 138 each each each each each each	SDD-0042 Section Weight (lb) = 31 31 31 31	15192 2 1 3	2.00 8.00	\$	675.12		1,532,997.81	\$	49,451.54	-	\$ 49,451.54	\$
Total Tower Weight With Guys and Ext. (lb) = 16268 te Preparation tul tup Blocks semble Tower stall Guy Strand elicopter Set ane Set tumb Tower ul Insulators and Travellers	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y-Tower Erection	138 each each each each each each	Section Weight (lb) = 31 31 31 31 31	2 1 3	8.00	\$	675.12							
te Preparation aul stup Blocks semble Tower stall Guy Strand elicopter Set ane Set umb Tower ul Insulators and Travellers	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each	31 31 31 31	2 1 3	8.00	\$	675.12							
aul stup Blocks semble Tower stall Guy Strand elicopter Set ane Set umb Tower ul Insulators and Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y-Tower Erection	each each each each each	31 31 31	1 3	8.00	φ	0/0.12	1,350.24	41,857.59	31 \$	1,350.24	Ī		
etup Blocks semble Tower stall Guy Strand elicopter Set ane Set umb Tower ul Insulators and Travellers	Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection	each each each each	31 31	3		2	441.04		109,366.43	31 \$	3,527.95			
semble Tower stall Guy Strand elicopter Set ane Set umb Tower ul Insulators and Travellers	Lattice Assembly Guy Instail HIL Helicopter Y- Tower Erection	each each each	31		2.00	\$	281.84		17,474.22		563.68			
stall Guy Strand elicopter Set ane Set umb Tower ul Insulators and Travellers	Guy Install HL Helicopter Y- Tower Erection	each each		4	26.04	\$	1,183.92		955,760.87		30,831.00			
elicopter Set ane Set umb Tower ul Insulators and Travellers	HL Helicopter Y- Tower Erection	each			2.00	φ	1,103.92		78,036.29		2,517.30			
ane Set umb Tower ul Insulators and Travellers	Y- Tower Erection		31		0.00	\$	21,899.72		- 10,030.23	31 \$	2,017.00			
umb Tower ul Insulators and Travellers		each	31		2.50	\$	1,482.09			31 \$	3,705.24			
ul Insulators and Travellers	l ower Plumb	each	31		2.00	\$	913.00		56,606.09	31 \$	1,826.00			
	Haul Travellers&Glass	each	31		2.00	\$	636.64 S				1,273.27			
	Hang Travellers	each	31		1.50	\$	1,444.07		67,149.11		2,166.10			
e -in	Tie -in	each	31		2.50	\$	676.30		52,413.39		1,690.75			
				12	2.00	\$								
Total Goot	Ψ 2.51	ir per pourid	I			Ψ								
								40,401.04	1,002,001.01		40,401.04			
-D5 Assembly and Frection of Suspension Tower Typ	e "Δ1 ± 6" as ner dwo	n Total struct	ture count:	138	FΔ				6 849 083 56	\$	49 631 04	¢ -	\$ 49 631 04	\$
				130				•	0,043,003.30	Ψ	73,031.07	Ψ -	Ψ +3,031.04	Ψ
				15272										
					2.00	¢	675 12	1 350 24 0	186 333 80	138 ¢	1 350 24			
	•					Φ								
						φ								
·						φ								
						Φ					,			
						Φ								
						\$								
						\$								
						\$								
				•		\$								
						\$								
				12	2.00	\$					· · · · · · · · · · · · · · · · · · ·			
Total Cost	Ψ 2.51	14 per pourid	I			Ψ			<u> </u>					
								40,001.04	0,040,000.00	Ψ_	40,001.04			
-D6 Assembly and Frection of Suspension Tower Typ	e "A1 + 7 5" as ner	Total struct	ture count:	79	EA			9	3.977.573.61	\$	50.349.03	\$ -	\$ 50.349.03	\$
					7				0,011,010101	•	00,010100	•	V 00,010.00	•
				15589										
3 7 7 7 10100	Site Preparation	each			2.00	\$	675.12	1,350.24	106,669.35	79 \$	1,350.24			
		each	79	1		\$			285,988.13					
	Blocking Crew	each		3	2.00	\$					563.68			
·	Lattice Assembly	each	79	4	26.72	\$								
	Guy Install	each	79	39	2.00	\$			198,866.66		2,517.30			
•	HL Helicopter	each			0.00	\$			-	79 \$				
	Y- Tower Erection	each			2.50	\$			292,713.59		3,705.24			
	Tower Plumb	each	79		2.00	\$			144,254.24	79 \$	1,826.00			
	Haul Travellers&Glass	each			2.00	\$								
	Hang Travellers	each	79	8	1.50	\$,			2,166.10			
e -in	Tie -in	each			2.50	\$					1,690.75			
		each				\$			-	79 \$	-			
Total Cost =	\$ 2.90	1 per pound							3,977.573,61		50.349.03			
	I-D5 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (lb) = 16398 te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set anne Set tumb Tower aul Insulators and Travellers are -in Total Cost = 1-D6 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (lb) = 16766 te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set anne Set under Type "A Total Tower Weight With Guys and Ext. (lb) = 16766 te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set anne Set umb Tower stall Guy Strand elicopter Set anne Set umb Tower stall Insulators and Travellers ang Travellers elicin gravellers elicin	I-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 50. Total Tower Weight With Guys and Ext. (Ib) = 16398 Total Tower Height(ff) = 16398 Blocking Crew Stee Preparation Blocks Seemble Tower Lattice Assembly Stall Guy Strand Guy Install Belicopter Set Tower Plumb Tower Fund Total Cost = \$2.91 I-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per dwg. 50 Total Tower Weight With Guys and Ext. (Ib) = 16766 Total Tower Weight With Guys and Ext. (Ib) = 16766 Total Tower Height(ff) = 1640 Tower Exection Stee Preparation Blocking Crew Total Tower Weight With Guys and Ext. (Ib) = 16766 Total Tower Height(ff) = 16	I-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. Total struct I-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43D Total Tower Weight With Guys and Ext. (ib) = 16398 Total Tower Height(ft) = 143 te Preparation see Preparation each aul Heading each graph of the Preparation e	1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. Total structure count: -D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD-0042	1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. Total structure count:	1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. Total structure count: 138	1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. Total structure count:	Fig. Fig.	Food Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD-0042 Total Tower Weight Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16398 Total cover Height Will Guys and Ext. (b.) = 16762 S. 1,350.24 S. 1,350.	1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. Total structure count: -D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD-0042	Total Cost = \$ 2.917 per pound S	Total Cost	Total Cost	Total Cost



NALCOR 350 kV HVdc Line Construc	tion Front 1 (Labrador)		Limita		11		Crew Cost							otal Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hou	rly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	IV	anhours and Materials	Total Materials
												•			
S1-D7 Assembly and Erection of Suspension S1-D7 Assembly and Erection of Suspension				116	EA				\$ 5,905,845.1	2	\$ 50,912.46	\$	- \$	50,912.46	\$
Total Tower Weight With Guys and Ext. (lb) =	17066 Total Tower Height(ft) =	153	Section Weight (lb) =	15838											
Site Preparation	Site Preparation	each	116	2	2.00	\$	675.12	\$ 1,350.24	\$ 156,628.4	1 116	\$ 1,350.24	7			
Haul	Site Preparation Hauling	each	116	1	8.34	\$	441.04					=			
Setup Blocks	Blocking Crew	each	116	3	2.00	\$	281.84	·							
Assemble Tower	Lattice Assembly	each	116	4	27.15	\$	1,183.92	\$ 32,141.91	\$ 3,728,461.0						
Install Guy Strand	Guy Install	each	116	39	2.00	\$	1,258.65	· · · · · · · · · · · · · · · · · · ·							
Helicopter Set	HL Helicopter	each	116	27	0.00	\$	21,899.72	<u>· </u>	\$ -	116					
Crane Set	Y- Tower Erection	each	116	40	2.50	\$	1,482.09		_						
Plumb Tower	Tower Plumb	each	116	41	2.00	\$	913.00								
haul Insulators and Travellers	Haul Travellers&Glass	each	116	7	2.00	\$	6 36.64	·							
Hang Travellers	Hang Travellers	each	116	8	1.50	\$	1,444.07								
Tie -in	Tie -in	each	116	12	2.50	\$	676.30								
		each	116			\$	-		\$ -	116					
		each	116			\$		\$ -	\$ -	116		1			
	Total Cost = \$ 2.891	per pound							\$ 5,905,845.1		\$ 50,912.46				
	,		ļ								,,.	_			
S1-D8 Assembly and Erection of Suspensi	ion Tower Type "A1 + 10.5" as per	Total struc	ture count:	77	EA				\$ 4,003,571.3	5	\$ 51,994.43	\$	- \$	51,994.43	\$
S1-D8 Assembly and Erection of Suspension		05573-4622-	43DD-0042		_						,			,	
Total Tower Weight With Guys and Ext. (lb) =	17594 Total Tower Height(ft) =	158	Section Weight (lb) =	16316											
Site Preparation	Site Preparation	each	77	2	2.00	\$	675.12	\$ 1,350.24	\$ 103,968.8	6 77	\$ 1,350.24	7			
Haul	Hauling	each	77	1	8.59	\$	4 41.04								
Setup Blocks	*					-									
JOETUP DIUCKS	Blocking Crew	each	77	3	2.00	\$	281 .84	\$ 56 3.68	\$ 43,403.7	1 77	\$ 563.68				
<u> </u>		each each	77 77	3 4	4	\$									
Assemble Tower	Blocking Crew Lattice Assembly Guy Install		77		2.00 27.97 2.00	\$ \$ \$	281.84 1,183.92 1,258.65	\$ 33,112.78	\$ 2,549,684.4	3 77	\$ 33,112.78	-			
Assemble Tower Install Guy Strand	Lattice Assembly	each	-	4	27.97	\$ \$ \$	1,183.92 1,258.65	\$ 33,112.78 \$ 2,517.30		3 77 6 77	\$ 33,112.78 \$ 2,517.30	-			
Assemble Tower	Latice Assembly Guy Install HL Helicopter	each each	77 77	4 39	27.97 2.00 0.00	\$ \$ \$ \$	1,183.92 1,258.65 21,899.72	\$ 33,112.78 \$ 2,517.30 \$ -	\$ 2,549,684.4 \$ 193,832.0 \$ -	3 77 6 77 77	\$ 33,112.78 \$ 2,517.30 \$ -	- - -			
Assemble Tower Install Guy Strand Helicopter Set	Lattice Assembly Guy Install	each each each	77 77 77 77	4 39 27	27.97 2.00	\$ \$ \$ \$	1,183.92 1,258.65	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24	\$ 2,549,684.4 \$ 193,832.0 \$ -	3 77 6 77 77 2 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24	- - - - -			
Assemble Tower Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each	77 77 77	4 39 27 40	27.97 2.00 0.00 2.50	\$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2	3 77 6 77 77 2 77 4 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00	-			
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each	77 77 77 77 77	4 39 27 40	27.97 2.00 0.00 2.50 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1	3 77 6 77 77 2 77 4 77 6 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	-			
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	77 77 77 77 77 77	4 39 27 40 41 7	27.97 2.00 0.00 2.50 2.00 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1	3 77 6 77 77 2 77 4 77 6 77 3 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	-			
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each	77 77 77 77 77 77 77	4 39 27 40 41 7 8	27.97 2.00 0.00 2.50 2.00 2.00 1.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7	3 77 6 77 77 2 77 4 77 6 77 3 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75				
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers& Citass Hang Travellers Tie-in	each each each each each each each each	77 77 77 77 77 77 77 77	4 39 27 40 41 7 8	27.97 2.00 0.00 2.50 2.00 2.00 1.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75				
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers& Citass Hang Travellers Tie-in	each each each each each each each each	77 77 77 77 77 77 77 77	4 39 27 40 41 7 8	27.97 2.00 0.00 2.50 2.00 2.00 1.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ -	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ -				
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly	each each each each each each each each	77 77 77 77 77 77 77 77	4 39 27 40 41 7 8	27.97 2.00 0.00 2.50 2.00 2.00 1.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ -		- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspensi	Lattice Assembly	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12	27.97 2.00 0.00 2.50 2.00 2.00 1.50 2.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43		- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) =	Lattice Assembly	each each each each each each each each	77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12	27.97 2.00 0.00 2.50 2.00 2.00 1.50 2.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ 4,003,571.3 \$ 7,718,675.6	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 77	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 52,508.00	\$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension	Lattice Assembly Guy Install Ht. Helicopter Y Tower Flumb Haul Travellers Cliass Hang Travellers Tie-in Total Cost = \$ 2.872 ion Tower Type "A1 + 12" as per Tower Type "A1 + 12" as per dwg. 505	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12	27.97 2.00 0.00 2.50 2.00 2.00 1.50 2.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 77 5	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 1,350.24	\$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) =	Lattice Assembly	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12	27.97 2.00 0.00 2.50 2.00 2.00 1.50 2.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07	\$ 33,112.78 \$ 2,517.30 \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43	\$ 2,549,684.4 \$ 193,832.0 \$ - \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 77 5	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78	\$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation	Lattice Assembly Guy Install Ht. Helicopter Y Tower Frection Tower Flumb Haul Travellers Cliass Hang Travellers Tie-in Total Cost = \$ 2.872 ion Tower Type "A1 + 12" as per Tower Type "A1 + 12" as per dwg. 505 17872 Total Tower Height(ft) = Site Preparation	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12	27.97 2.00 0.00 2.50 2.00 2.00 1.50 2.50 EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 77 5 2	\$ 33,112.78 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower	Lattice Assembly Guy Install Ht. Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in Total Cost = \$ 2.872 ion Tower Type "A1 + 12" as per at Tower Type "A1 + 12" as per dwg. 50% 17872 Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.00 1.50 2.50 EA 2.00 8.71 2.00 28.36	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 -	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 77 5 2	\$ 33,112.78 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	Lattice Assembly	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3	27.97 2.00 0.00 2.50 2.00 2.00 1,50 2.50 EA 2.00 8.71 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 77 5 2	\$ 33,112.78 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower	Lattice Assembly	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.00 1.50 2.50 EA 2.00 8.71 2.00 28.36	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 -	\$ 33,112.78 \$ 2,517.30 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 77 5 2	\$ 33,112.78 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Lattice Assembly Guy Install Ht. Helicopter Y-Tower Piterbion Tower Piterbion Tower Piterbion	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3 4 39	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.80 2.80 2.80 2.80 2.80 2.90 8.71 2.00 28.36 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 - - 675.12 441.04 281.84 1,183.92 1,258.65	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6 \$ 370,043.0	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 77 5 2 0 147 1 147 3 147 6 147 3 147	\$ 33,112.78 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Pitumb Haul Travellers Glass Hang Travellers Tie-in Total Cost = \$ 2.872 ion Tower Type "A1 + 12" as per Tower Type "A1 + 12" as per dwg. 50t 17872 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3 4 39 27	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.80 4.71 2.00 28.36 2.00 0.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 - - 675.12 441.04 281.84 1,183.92 1,258.65 21,899.72	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6 \$ 370,043.0 \$ - \$ 544,669.5	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 77 5 2 2 0 147 1 147 3 147 6 147 3 147 9 147	\$ 33,112.78 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ \$ 51,994.43 \$ 52,508.00 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ \$ 3,705.24	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HL Helicopter Y. Tower Pitumb Haul Travellers Glass Hang Travellers Tie -in Total Cost = \$ 2.872 If on Tower Type "A1 + 12" as per Tower Type "A1 + 12" as per dwg. 508 17872 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y. Tower Erection	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3 4 39 27 40	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.80 4.71 2.00 28.36 2.00 0.00 2.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 - - 675.12 441.04 281.84 1,183.92 1,258.65 21,899.72 1,482.09	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ - \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6 \$ 370,043.0 \$ - \$ 544,669.5 \$ 268,422.4	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 2 2 0 147 1 147 3 147 6 147 3 147 9 147 9 147	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 3,705.24 \$ 1,826.00	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HL Helicopter Y. Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in Total Cost = \$ 2.872 If on Tower Type "A1 + 12" as per Tower Type "A1 + 12" as per dwg. 508 17872 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y. Tower Erection Tower Flumb	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3 4 39 27 40 41	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 - - 675.12 441.04 281.84 1,183.92 1,258.65 21,899.72 1,482.09 913.00	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 51,994.43 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6 \$ 370,043.0 \$ 544,669.5 \$ 268,422.4 \$ 187,171.3	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 2 2 2 0 147 1 147 3 147 6 147 147 3 147 6 147 9 147 9 147	\$ 33,112.78 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y. Tower Erection Tower Plumb Haul Travellers&Giass Hang Travellers Tie-in Total Cost = \$ 2.872 If ONE Type "A1 + 12" as per	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3 4 39 27 40 41 7	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 - - 675.12 441.04 281.84 1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64	\$ 33,112.78 \$ 2,517.30 \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6 \$ 370,043.0 \$ 544,669.5 \$ 268,422.4 \$ 187,171.3 \$ 318,416.7	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 5 2 2 2 0 147 1 147 3 147 6 147 9 147 9 147 9 147 6 147	\$ 33,112.78 \$ 2,517.30 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	- \$	- \$	52,508.00	\$
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in S1-D9 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install Ht. Helicopter Y. Tower Erection Tower Plumb Haul Travellers Giass Hang Travellers Tie -in Total Cost = \$ 2.872 ion Tower Type "A1 + 12" as per Tower Type "A1 + 12" as per dwg. 505 17872 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y. Tower Erection Tower Plumb Haul Travellers Giass Hang Travellers	each each each each each each each each	77 77 77 77 77 77 77 77 77 77 77 77 77	4 39 27 40 41 7 8 12 147 16544 2 1 3 4 39 27 40 41 7 8	27.97 2.00 0.00 2.50 2.00 1.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30 - - - - - - - - - - - - - - - - - - -	\$ 33,112.78 \$ 2,517.30 \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 2,549,684.4 \$ 193,832.0 \$ 285,303.1 \$ 140,602.2 \$ 98,042.1 \$ 166,789.7 \$ 130,188.0 \$ 4,003,571.3 \$ 7,718,675.6 \$ 198,486.0 \$ 564,742.2 \$ 82,861.6 \$ 4,935,321.6 \$ 370,043.0 \$ 544,669.5 \$ 268,422.4 \$ 187,171.3 \$ 318,416.7	3 77 6 77 77 2 77 4 77 6 77 3 77 9 77 77 5 2 2 2 0 147 1 147 3 147 6 147 147 9 147 9 147 9 147 6 147	\$ 33,112.78 \$ 2,517.30 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 51,994.43 \$ 52,508.00 \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	- \$	- \$	52,508.00	\$



I	NALCOR 350 kV HVdc Line Construction	Front 1 (Labrador)				Crew Cost						Total Unit Cost	
nt	Description		Units Total	Crow No.	Hours per	Haushi Data	Unit Coot	Subtotal	Units	Limit Coot	Materials	Manhours and Materials	Total Materials
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	UTIILS	Unit Cost	Materials	Materials	Total Materials
	S1-D10 Assembly and Erection of Suspension	Tower Type "A1 + 13.5" as per	Total structure count:	0	EA			-		\$ 53,225.99 \$	-	\$ 53,225.99	\$
	S1-D10 Assembly and Erection of Suspension To									, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,	,
_	Total Tower Weight With Guys and Ext. (lb) =	18240 Total Tower Height(ft) =	168 Section Weight (lb)	= 16861									
	Site Preparation	Site Preparation	each	0 2	2.00	675.12			0				
<u> </u>	Haul	Hauling	each	0 1	8.88	-			0				
	Setup Blocks	Blocking Crew	each	0 3	2.00			-	0				
-	Assemble Tower	Lattice Assembly	each	0 4	28.90	1,100.02	\$ 34,217.89	-	0				
	Install Guy Strand	Guy Install	each	0 39	2.00	,	\$ 2,517.30		0				
-	Helicopter Set	HL Helicopter	each	0 27	0.00	,		-	0				
	Crane Set	Y- Tower Erection	each	0 40	2.50	1,482.09	\$ 3,705.24		0				
-	Plumb Tower	Tower Plumb	each	0 41	2.00				0	· ·			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00				0	·			
-	Hang Travellers	Hang Travellers	each	0 8	1.50	1,444.07	\$ 2,166.10		0				
_	Tie -in	Tie -in	each	0 12	2.50	7 0.0101			0				
L	-	0.1	each	0		-	\$ -		0				
	lotal	Cost = \$ 2.852	per pound				\$ 53,225.99	-		\$ -			
	04 04 4 4 4 4 6 6 6 6	T "A4 45"		•						A 50.040.00 A		A 50.040.00	۱.
	S1-D11 Assembly and Erection of Suspension		Total structure count:	0	EA			-		\$ 53,943.98 \$	-	\$ 53,943.98	\$
	S1-D11 Assembly and Erection of Suspension To			47470									
Г	Total Tower Weight With Guys and Ext. (lb) =	18608 Total Tower Height(ft) =	172 Section Weight (lb)		0.00	075.40	0 4 250 04			Φ.			
	Site Preparation	Site Preparation	each	2	2.00				0				
	Haul	Hauling	each	0 1	9.05	\$ 441.04			0				
	Setup Blocks Assemble Tower	Blocking Crew	each	0 3	2.00 \$ 29.45	20.10.			0				
-		Lattice Assembly	each each	0 39	29.45				0				
	Install Guy Strand Helicopter Set	Guy Install	each	0 39 0 27	0.00	1,258.65 21,899.72	\$ 2,517.30		0				
	Crane Set	HL Helicopter Y- Tower Erection	each	0 40	2.50	1,482.09	Ψ	7	0				
-	Plumb Tower	Y- Tower Erection Tower Plumb	each	0 41	2.00	913.00			0	-			
-	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each	0 7	2.00	63 6.64			0				
	Hang Travellers	Hauj Travellers Hang Travellers	each	0 8	1.50		\$ 2,166.10		0				
-	Tie -in	Hang Travellers Tie -in	each	0 12	2.50	676.30			0				
-	THE III	rie -iii	each	0 12	2.00		\$ -	•	0	-			
L	Total	Cost = \$ 2.842	per pound	0			\$ 53,943.98	r		\$ -			
	Total	Σ.512	por pound				Ψ 00,010.00	,		Ψ			
	S1-D12 Assembly and Erection of Suspension	Tower Type "A1 + 16.5" as per	Total structure count:	0	EA			-		\$ 54,507.41 \$	-	\$ 54,507.41	\$
	S1-D12 Assembly and Erection of Suspension Tov									• • • • • • • • • • • • • • • • • • • •		+	•
	Total Tower Weight With Guys and Ext. (lb) =	18907 Total Tower Height(ft) =	177 Section Weight (lb)	= 17428									
Ţ	Site Preparation	Site Preparation	each	0 2	2.00	675.12	\$ 1,350.24	-	0	\$ -			
	Haul	Hauling		0 1	9.18		\$ 4,047.08		0				
	Setup Blocks	Blocking Crew	each	0 3	2.00				0				
-	Assemble Tower	Lattice Assembly	each	0 4	29.87	1,183.92	\$ 35,367.73		0				
	Install Guy Strand	Guy Install	each	0 39	2.00	1,258.65	\$ 2,517.30		0				
	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72	\$ -	-	0				
	Crane Set	Y- Tower Erection	each	0 40	2.50		\$ 3,705.24	-	0	\$ -			
-	Plumb Tower	Tower Plumb	each	0 41	2.00	· ·	\$ 1,826.00		0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	636.64	\$ 1,273.27	-	0	\$ -			
-		Hang Travellers	each	0 8	1.50				0	\$ -			
Į	Hang Travellers												
	Hang Travellers Tie -in	Tie -in	each	0 12	2.50	676.30	\$ 1,690.75	5 -	0	\$ -			
	·		each each	0 12	2.50		\$ 1,690.75 1 \$ - 1			-			



Ī	Total Unit Cost			T	Total Unit (t Cost	
nt	Manhours and			M	Manhours a	s and	
Ŀ	Materials T	Materials	Materials		Materia	rials 1	Total Materials
;	\$ 55,075.82	<u>-</u>		- \$	\$ 55.0	075.82	¢
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16 5			1.1-34-	i									
16 5			Units		Hours per							Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
					_				_				
	S1-D16 Assembly and Erection of Suspension To		Total structure count:	1	EA			\$ 70,503.31		\$ 70,503.31 \$	-	\$ 70,503.31	\$
,	S1-D16 Assembly and Erection of Suspension Tower												
Г		Total Tower Height(ft) =	116 Section Weight (lb) =		0.00	075.40	4.050.04	4 4050.04		105001			
<u> </u>	Site Preparation	Site Preparation	each	1 2		\$ 675.12				\$ 1,350.24			
	Haul	Hauling	each	1 1		\$ 441.04 \$ 281.84	\$ 6,915.05 \$ 563.68	\$ 6,915.05 \$ 563.68		\$ 6,915.05 \$ 563.68			
	Setup Blocks Assemble Tower	Blocking Crew	each	1 3	2.00 38.02		\$ 45,013.88						
<u> </u>	nstall Guy Strand	Lattice Assembly	each each	1 39	38.02	\$ 1,183.92 \$ 1,258.65	\$ 45,013.88 \$ 3,775.95	\$ 45,013.88 \$ 3,775.95		\$ 45,013.88 \$ 3,775.95			
	Helicopter Set	Guy Install HL Helicopter	each	1 27				\$ 3,773.93		\$ 3,773.93			
	Crane Set	Y- Tower Erection	each	1 40		\$ 1,482.09				\$ 5,928.38			
<u> </u>	Plumb Tower	Tower Plumb	each	1 41	2.00	\$ 913.00	\$ 1,826.00			\$ 1,826.00			
_	naul Insulators and Travellers	Haul Travellers&Glass	each	1 7		\$ 636.64				\$ 1,273.27			
	Hang Travellers	Hang Travellers	each	1 8		\$ 1,444.07				\$ 2,166.10			
-	Tie -in	Tie -in	each	1 12	2.50	\$ 676.30				\$ 1,690.75			
			each	1			\$ -			\$ -			
L	Total Co	ost = \$ 2.947	per pound	<u> </u>	· ·	,	\$ 70,503.31			\$ 70,503.31			
									_				
17 \$	S1-D17 Assembly and Erection of Suspension To	wer Type "A2 + 4.5" as per	Total structure count:	30	EA			\$ 2,170,444.69		\$ 72,348.16 \$	-	\$ 72,348.16	\$
:	S1-D17 Assembly and Erection of Suspension Tower	Type "A2 + 4.5" as per dwg. 5	605573-4622-43DD-0044		_								
	Total Tower Weight With Guys and Ext. (lb) = 2	Total Tower Height(ft) =	121 Section Weight (lb) =	22997				•					
٢	Site Preparation	Site Preparation		30 2	2.00	\$ 675.12	1 1 2 2						
_	Haul	Hauling		30 1	16.11	\$ 441.04	, , ,						
	Setup Blocks	Blocking Crew		30 3	2.00	\$ 281.84							
/	Assemble Tower	Lattice Assembly		30 4	39.42	7	\$ 46,669.30	·	30				
	nstall Guy Strand	Guy Install		30 39	3.00	\$ 1,258.65		·					
	Helicopter Set	HL Helicopter		30 27	0.00	\$ 21,899.72		\$ -	30				
F-	Crane Set	Y- Tower Erection		30 40	4.00	\$ 1,482.09							
-	Plumb Tower	Tower Plumb		30 41	2.00	\$ 913.00							
_	naul Insulators and Travellers	Haul Travellers&Glass		7	2.00	\$ 636.64							
-	Hang Travellers	Hang Travellers		8	1.50	\$ 1,444.07	\$ 2,166.10						
-	Tie -in	Tie -in		30 12	2.50		\$ 1,690.75 \$ -						
L	Total Co	oot =		30		5 -	Ψ	*	30				
	Total Co	ost = \$ 2.923	B per pound				\$ 72,348.16	\$ 2,170,444.69		\$ 72,348.16			
18 \$	S1-D18 Assembly and Erection of Suspension To	wor Type "A2 + 6" as per	Total structure count:	61	EA			\$ 4,428,749.17		\$ 72,602.45 \$		\$ 72,602.45	e
	S1-D16 Assembly and Erection of Suspension Tower			01	LA			φ 4,420,743.17		φ 12,002.43 φ	-	φ 12,002.43	•
,		5053 Total Tower Height(ft) =	126 Section Weight (lb) =	23109									
F	Site Preparation	Site Preparation		61 2	2.00	\$ 675.12	\$ 1,350.24	\$ 82,364.94	61	\$ 1,350.24			
-	Haul	Hauling	4	61 1	16.17								
	Setup Blocks	Blocking Crew		61 3		\$ 281.84							
	Assemble Tower	Lattice Assembly		61 4		· _	\$ 46,897.47	. ,		\$ 46,897.47			
_	nstall Guy Strand	Guy Install		61 39	3.00	\$ 1,258.65	\$ 3,775.95		61	,			
-	Helicopter Set	HL Helicopter		61 27	0.00			\$ -	61				
<u> </u>	Crane Set	Y- Tower Erection		61 40	4.00	\$ 1,482.09	\$ 5,928.38	\$ 361,630.97					
<u> </u>	Plumb Tower	Tower Plumb		61 41			\$ 1,826.00						
<u> </u>	naul Insulators and Travellers	Haul Travellers&Glass		61 7		\$ 636.64			_				
_	Hang Travellers	Hang Travellers		61 8		\$ 1,444.07	. ,						
-	Tie -in	Tie -in		61 12			\$ 1,690.75						
			each	61		\$ -	\$ -			\$ -			
_	Total Co	ost = \$ 2.920	per pound				\$ 72,602.45	\$ 4,428,749.17		\$ 72,602.45			



Ī	NALCOR 350 kV HVdc Line Construction Front 1 (I	Labrador)				Crew Cost						Total Unit Cost	
nt			Units		Hours per							Manhours and	
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
,	S1-D19 Assembly and Erection of Suspension Tower Typ	e "A2 + 7.5" as per	Total structure count:	76	EA			5,662,162.23	3	\$ 74,502.13 \$	-	\$ 74,502.13	\$
	S1-D19 Assembly and Erection of Suspension Tower Type "A				<u></u>			., ., ., .		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , ,	
_	Total Tower Weight With Guys and Ext. (lb) = 26009	Total Tower Height(ft) =	131 Section Weight (lb										
	Site Preparation	Site Preparation	each	76 2	2.00		1,350.24	102,618.61					
_	Haul	Hauling	each	76 1	16.61	111101	7,325.64						
	Setup Blocks	Blocking Crew	each	76 3	2.00								
_	Assemble Tower	Lattice Assembly	each	76 4	41.05	1,183.92	48,602.11						
_	Install Guy Strand	Guy Install	each	76 39	3.00	.,=00.00	3,775.95						
<u> </u>	Helicopter Set	HL Helicopter	each	76 27	0.00	,		450 556 64	76				
-	Crane Set	Y- Tower Erection	each	76 40	4.00	1,482.09	5,928.38						
<u> </u>	Plumb Tower	Tower Plumb	each	76 41 76 7	2.00								
-	haul Insulators and Travellers	Haul Travellers&Glass	each	76 7 76 8	2.00								
_	Hang Travellers	Hang Travellers	each	76 12	1.50	1,444.07							
_	Tie -in	Tie -in	each each	76 12	2.50			,	76 76				
L	Total Cost =	\$ 2 897	per pound	70		- 1	74,502.13			\$ 74,502.13			
	Total Cost –	φ 2.091	per pourid			4	14,502.13	5,002,102.23)	φ 74,502.15			
	S1-D20 Assembly and Erection of Suspension Tower Typ	o "Λ2 ± 0" as nor	Total structure count:	77	EA			5,839,172.79		\$ 75,833.41 \$		\$ 75,833.41	¢
	S1-D20 Assembly and Erection of Suspension Tower Type "A				_ EA			5,039,172.73		ў 73,033.41 ў	-	Φ 75,055.41	Ψ
,	Total Tower Weight With Guys and Ext. (lb) = 26713	Total Tower Height(ft) =	136 Section Weight (lb)= 24538									
Ī	Site Preparation	Site Preparation	each	77 2	2.00	675.12	1,350.24	103.968.86	3 77	\$ 1,350.24			
-	Haul	·	each	77 1	16.92								
	Setup Blocks	Hauling	each	77 3	2.00								
	Assemble Tower	Blocking Crew Lattice Assembly	each	77 4	42.06	1,183.92	-						
<u> </u>	Install Guy Strand	Guy Install	each	77 39	3.00	1,258.65							
	Helicopter Set	HL Helicopter	each	77 27	0.00	21,899.72			77				
_	Crane Set	Y- Tower Erection	each	77 40	4.00	1,482.09							
<u> </u>	Plumb Tower	Tower Plumb	each	77 41	2.00	913.00							
_	haul Insulators and Travellers	Haul Travellers&Glass	each	77 7	2.00	6 36.64	1,273.27						
	Hang Travellers	Hang Travellers	each	77 8	1.50	1,444.07	2,166.10						
_	Tie -in	Tie -in	each	77 12	2.50	676.30		,					
-			each	77	9	- 3		·	77				
<u> </u>	Total Cost =	\$ 2.881	per pound			9	75,833.41	5,839,172.79		\$ 75,833.41			
		,								, ,,,,,,			
,	S1-D21 Assembly and Erection of Suspension Tower Typ	e "A2 + 10.5" as per	Total structure count:	56	EA			4,349,982.30)	\$ 77,678.26 \$	-	\$ 77,678.26	\$
,	S1-D21 Assembly and Erection of Suspension Tower Type "A	A2 + 10.5" as per dwg.	505573-4622-43DD-0044				_						
	Total Tower Weight With Guys and Ext. (lb) = 27645	Total Tower Height(ft) =	141 Section Weight (lb)= 25353									
,	Site Preparation	Site Preparation	each	56 2	2.00	675.12	1,350.24						
	Haul	Hauling	each	56 1	17.35	441.04	7,651.76	\$ 428,498.72					
<u> </u>	Setup Blocks	Blocking Crew	each	56 3	2.00								
	Assemble Tower	Lattice Assembly	each	56 4	43.46	1,183.92	51,452.10						
-	Install Guy Strand	Guy Install	each	56 39	3.00	1,200.00	3,775.95						
_	Helicopter Set	HL Helicopter	each	56 27	0.00	21,899.72			56				
(Crane Set	Y- Tower Erection	each	56 40	4.00	,	5,928.38	•					
	Plumb Tower	Tower Plumb	each	56 41	2.00								
-	haul Insulators and Travellers	Haul Travellers&Glass	each	56 7	2.00								
Ī			each	56 8	1.50	1,444.07	2,166.10	121,301.62	2 56	\$ 2,166.10			
Ī	Hang Travellers	Hang Travellers											
1	Hang Travellers Tie -in	Hang Travellers Tie -in	each	56 12	2.50		,						
1	<u> </u>	Tie -in					·	-	56				



NALCOR 350 kV HVdc Line Co	nstruction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
t		Units		Hours per							Manhours and	
Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
S1-D22 Assembly and Erection of S	uspension Tower Type "A2 + 12" as per	Total structure count:	34	EA			\$ 2,647,841.72	2	\$ 77,877.70 \$	-	\$ 77,877.70	\$
S1-D22 Assembly and Erection of Su	pension Tower Type "A2 + 12" as per dwg. 5			_					,		,	
Total Tower Weight With Guys and E	3 ()	146 Section Weight (lb)		2.00	ф 67F 40 (1 250 24	15 000 22	1 24	ф 4.2E0.24			
Site Preparation Haul	Site Preparation	each	34 <u>2</u> 34 <u>1</u>			1,350.24 7,672.24	45,908.33 260,856.21					
Setup Blocks	Hauling	each each	34 1	17.40 2.00	·	563.68						
Assemble Tower	Blocking Crew	each	34 4	43.61	\$ 1,183.92	51,631.07	. ,					
Install Guy Strand	Lattice Assembly	each	34 39	3.00		3,775.95	, , , , , , , , ,					
Helicopter Set	Guy Install	each	34 27	0.00			\$ 120,302.20	34				
Crane Set	HL Helicopter	each	34 40	4.00	\$ 1,482.09	5,928.38						
Plumb Tower	Y- Tower Erection		34 41	2.00								
haul Insulators and Travellers	Tower Plumb	each	34 7	2.00	·							
Hang Travellers	Haul Travellers&Glass	each	34 8	1.50	\$ 1,444.07 S							
Tie -in	Hang Travellers	each	34 12	2.50								
116 -111	Tie -in	each	34 12		\$ - 9		,	34				
L	Total Cost = \$ 2.85	9 per pound	34		- (77,87 7.70			\$ 77,877.70			
		, , ,						_	<u> </u>			_
	uspension Tower Type "A2 + 13.5" as per		9	EA			717,996.48	3	\$ 79,777.39 \$	-	\$ 79,777.39	\$
	pension Tower Type "A2 + 13.5" as per dwg											
Total Tower Weight With Guys and E	t. (lb) = 28805 Total Tower Height(ft) =	151 Section Weight (lb)										
Site Preparation	Site Preparation	each	9 2		\$ 675.12							
Haul	Hauling	each	9 1	11.01	\$ 441.04							
Setup Blocks	Blocking Crew	each	9 3		\$ 281.84							
Assemble Tower	Lattice Assembly	each	9 4	45.05	\$ 1,183.92							
Install Guy Strand	Guy Install	each	9 39	3.00	\$ 1,258.65							
Helicopter Set	HL Helicopter	each	9 27	0.00	\$ 21,899.72		•	9				
Crane Set	Y- Tower Erection	each	9 40	4.00	\$ 1,482.09		. ,					
Plumb Tower	Tower Plumb	each	9 41	2.00	\$ 913.00							
haul Insulators and Travellers	Haul Travellers&Glass	each	9 7	2.00	\$ 6 36.64 S	1,273.27						
Hang Travellers	Hang Travellers	each	9 8	1.50	\$ 1,444.07	2,166.10	. ,					
Tie -in	Tie-in	each	9 12	2.50	\$ 676.30							
		each	9		\$ - 8	-		9				
	Total Cost = \$ 2.84	0 per pound				79,777.39	717,996.48	3	\$ 79,777.39			
S1-D24 Assembly and Erection of S	uspension Tower Type "A2 + 15" as per	Total structure count:	3	EA			\$ 249,477.51		\$ 83,159.17 \$	-	\$ 83,159.17	\$
S1-D24 Assembly and Erection of Su	pension Tower Type "A2 + 15" as per dwg. 5						•		•		•	
Total Tower Weight With Guys and E	t. (lb) = 29761 Total Tower Height(ft) =	156 Section Weight (lb)	= 27121									
Site Preparation	Site Preparation	each	3 2	2.00	\$ 675.12	1,350.24						
Haul	Hauling	each	3 1	18.28	·							
Setup Blocks	Blocking Crew	each	3 3		\$ 281.84							
Assemble Tower	Lattice Assembly	each	3 4	46.49	\$ 1,183.92	55,040.33						
Install Guy Strand	Guy Install	each	3 39	0.00	\$ 1,258.65	3,775.95	·					
Helicopter Set	HL Helicopter	each	3 27	0.00	\$ 21,899.72		•	3				
Crane Set	Y- Tower Erection	each	3 40	5.00	,							
Plumb Tower	Tower Plumb	each	3 41	2.00		,						
haul Insulators and Travellers	Haul Travellers&Glass	each	3 7	2.00	7	·						
Hang Travellers	Hang Travellers	each	3 8	1.50	+ .,	,		3				
Tie -in	Tie -in	each	3 12	2.50	\$ 676.30	1,690.75	\$ 5,072.26	3	\$ 1,690.75			
		each	3		\$ - {			3				
	Total Cost = \$ 2.87	7 per pound				83,159.17	\$ 249,477.51		\$ 83,159.17			
								_				



ment [NALCOR 350 kV HVdc Line Construction Front 1 (Li						Crew Cos	•						Total Unit Cost	
25 5				Units		Hours per								Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	l	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
				,	_							04 400 45	•	A 04 400 45	
,	S1-D25 Assembly and Erection of Suspension Tower Type				0	EA			\$	-	\$	84,490.45	-	\$ 84,490.45	\$
	S1-D25 Assembly and Erection of Suspension Tower Type "A2 Total Tower Weight With Guys and Ext. (lb) = 30466	z + 16.5 as per dwg. ; Total Tower Height(ft) =		Section Weight (lb) =	27710										
F	Site Preparation	Site Preparation	each	O Section Weight (ID) =	2	2.00	¢ 675	.12 \$	1,350.24 \$		0 \$	-	٦		
<u> </u>	Haul	Site Preparation Hauling	each	0	1	18.59		.04 \$	8,199.05 \$		0 \$		=		
	Setup Blocks	Blocking Crew	each	0		2.00		.84 \$	563.68 \$	-	0 \$		=		
	Assemble Tower	Lattice Assembly	each	0	4	47.50		.92 \$	56,234.91 \$	-					
	Install Guy Strand	Guy Install	each	0	39	3.00		.65 \$	3,775.95 \$		0 \$				
	Helicopter Set	HL Helicopter	each	0		0.00		.72 \$	- \$						
<u> </u>	Crane Set	Y- Tower Erection	each	0	40	5.00		.09 \$	7,410.47 \$		0 \$				
<u> </u>	Plumb Tower	Tower Plumb	each	0		2.00		.00 \$	1,826.00 \$		0 \$				
<u> </u>	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00		.64 \$	1,273.27 \$		0 \$		1		
<u> </u>	Hang Travellers	Hang Travellers	each	0	8	1.50		.07 \$	2,166.10 \$	-	0 \$		1		
<u> </u>	Tie -in	Tie -in	each	0	12	2.50		30 \$	1,690.75 \$				1		
Ī			each	0			\$	- \$	- \$	-	0 \$		1		
_	Total Cost =	\$ 2.864	per pound			•		\$	84,490.45 \$	-		-			
			,										_		
26 5	S1-D26 Assembly and Erection of Suspension Tower Type	"A2 + 18" as per	Total struct	ure count:	0	EA			\$	-	\$	85,821.73	\$ -	\$ 85,821.73	\$
:	S1-D26 Assembly and Erection of Suspension Tower Type "A2	2 + 18" as per dwg. 50	05573-4622-43	3DD-0044		_									
	Total Tower Weight With Guys and Ext. (lb) = 31170	Total Tower Height(ft) =		Section Weight (lb) =	28299					•					
٤	Site Preparation	Site Preparation	each	0		2.00	\$ 675	.12 \$	1,350.24 \$	-	0 \$				
Ī	Haul	Hauling	each	0	1	18.90	\$ 441	.04 \$	8,335.75 \$	_	0 \$				
ŗ	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281	.84 \$	563.68 \$	<u>-</u>	0 \$				
7	Assemble Tower	Lattice Assembly	each	0	4	48.51	\$ 1,183	.92 \$	57,429.50 \$	=	0 \$	-			
Ī	nstall Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258	.65 \$	3,775.95 \$	-	0 \$	-			
Ī	Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899	0.72 \$	- \$	=	0 \$				
(Crane Set	Y- Tower Erection	each	0	40	5.00	\$ 1,482	.09 \$	7,410.47 \$	=	0 \$	-			
ſ	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913	.00 \$	1,826.00 \$	=	0 \$	-			
F	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636	.64 \$	1,273.27 \$	=	0 \$				
Ī	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444	.07 \$	2,166.10 \$	=	0 \$	-			
7	Tie -in	Tie -in	each	0	12	2 .50	\$ 676	.30 \$	1,690.75 \$	=	0 \$	-			
			each	0			\$	- \$	- \$	=	0 \$	-			
•	Total Cost =	\$ 2.851	per pound					\$	85,821.73 \$	-	\$	-			
									_						
27 5	S1-D27 Assembly and Erection of Suspension Tower Type	"A2 + 19.5" as per	Total struct	ure count:	0	EA			\$	-	\$	86,534.73	-	\$ 86,534.73	\$
,	S1-D27 Assembly and Erection of Suspension Tower Type "A2														
-	Total Tower Weight With Guys and Ext. (lb) = 32326	Total Tower Height(ft) =		Section Weight (lb) =	28614								7		
-	Site Preparation	Site Preparation	each	0	2	2.00		.12 \$	1,350.24 \$		0 \$		_		
	Haul	Hauling	each	0	1	19.07		.04 \$	8,408.96 \$	-	0 \$		_		
	Setup Blocks	Blocking Crew	each	0	3	2.00		.84 \$	563.68 \$	-	0 \$		_		
	Assemble Tower	Lattice Assembly	each	0	4	49.05		.92 \$	58,069.29 \$	-	0 \$		_		
	nstall Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258		3,775.95 \$	-	0 \$		_		
	Helicopter Set	HL Helicopter	each	0		0.00		.72 \$	- \$	-	0 \$		_		
<u> </u>	Crane Set	Y- Tower Erection	each	0	40	5.00		.09 \$	7,410.47 \$		0 \$		_		
<u> </u>	Plumb Tower	Tower Plumb	each	0	41	2.00		.00 \$	1,826.00 \$	-	0 \$		_		
<u> </u>	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00		.64 \$	1,273.27 \$	-	0 \$		_		
<u> </u>	Hang Travellers	Hang Travellers	each	0		1.50	<u> </u>	.07 \$	2,166.10 \$	-	0 \$		_		
	Tie -in	Tie -in	each /	0	12	2.50	\$ 676	30 \$	1,690.75 \$	-	0 \$		_		
L			each	0			\$	- \$	- \$	-	0 \$		_		
	Total Cost =	\$ 2.845	per pound					\$	86,534.73	-	\$	-			



Assembly and Exection of Suspension Tower Type 'A3 ' Tower Setting Ratio Assembly and Exection of Suspension Tower Type 'A3 ' Tower Setting Ratio Assembly and Exection of Suspension Tower Type 'A3 ' Tower Setting Ratio Assembly and Exection of Suspension Tower Type 'A3 ' Tower Setting Ratio Assembly and Exection of Suspension Tower Type 'A3 ' Assembly and Execution Tower Ty		NALCOR 350 kV HVdc Line Construction	Front 1 (Labrador)					Crew Cost						Total Unit Cost		
Progression	Payment				Units		Hours per			1						
1.00 1.00	-	Description			Total	Crew No.	•	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
1.00 1.00											•			•		
Procedure and Emphatical Configuration of Superment Tower Type * A5 10" as per long, 58673-4862-4000-0000-0000-0000-0000-0000-0000-00	V-H17	Assembly and Erection of Suspension	Tower Type "A3"		Tower Setting	g Ratio	0.00	Helicopter	100%	Crane						
The first forestand any open is (1) = 1000 The street state (1) The street (1) The street state (1) The street (1)						4	EA	•		\$ 210,283.21	\$	52,570.80	\$ -	\$ 52,570.80	\$	-
Silic Preparation		S1-D28 Assembly and Erection of Suspension To		573-4622-43D	D-0050		_									
Field		Total Tower Weight With Guys and Ext. (lb) =	16808 Total Tower Height(ft) =	147	Section Weight (lb) =	15745							•			
Comparison Continue Continu		•	Site Preparation		4											
Part Cover Part			Hauling		4	•										
Find Section Control			Blocking Crew		4				<u> </u>							
Hericopart Set			Lattice Assembly		4											
Come Set		•	Guy Install		4				· · · · · · · · · · · · · · · · · · ·							
Pull Follower			HL Helicopter		·				·							
Main final			Y- Tower Erection		4											
First Firs					4											
Time of					4											
Total Cost = 3 101 per pound			·		4											
Total Coal \$ 3.10 per pound		ile -in	Tie -in		4	12	2.00									
St-D29 Assembly and Erection of Suspension Tower Type *A3 + 1.5" as per drog 5085754-8627-4300-0050 Table Page 17-10-10-10-10-10-10-10-10-10-10-10-10-10-		Tatal	Coot -		4			5 -		•						
S-1.029 Assembly and Erection of Suppension Tower Type* 33 = 1.5° as per redug 505573-4622 45D-0.050		Total	Cost = \$ 3.101	i per pound					\$ 52,570.80	\$ 210,283.21	Ф	52,570.80				
S-1.029 Assembly and Erection of Suppension Tower Type* 33 = 1.5° as per redug 505573-4622 45D-0.050	VD20	S1 D20 Assembly and Fraction of Suspension	Tower Type "A2 + 1.5" as per	Total struct	uro count:	0	E A			c	¢	E2 717 60	¢	¢ 52 717 60	¢	
Total Total Verlage With Copy and Fax (4 a)						U	_ EA			a	Ф	55,717.00	Ъ -	\$ 53,717.0U	Ф	-
Site Preparation						16252										
Haul		9 7 7					2.00	¢ 675.12	\$ 1,350,24	¢	0 \$		1			
Setup Blocks			•								0 \$					
Assemble Tower Genth Genth			·													
Install Guy Strand			·													
Helicopter Set																
Crane Set			·		0			,								
Plumb Tower		•			0					*						
Hauf Insulators and Travellers Hauf Insulators and Travellers Hang Travellers					0							-				
Hang Travellers																
Tie -in					0	8						-				
Total Cost = \$ 3.074 per pound		<u> </u>	· · · · · · · · · · · · · · · · · · ·		0			· · · · · · · · · · · · · · · · · · ·		\$ -						
### S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per Mug. 505573-4622-43DD-0050 ### S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-43DD-0050 ### Total Tower Weight With Guys and Ext. (lb) = 17720				each	0			\$ -	\$ -	\$ -	0 \$	-				
### S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-43DD-0050 Total Tower Weight With Guys and Ext. (tb.) = 17720 Total Tower Height IVI) = 157 Section Weight IVI) = 1657		Total	Cost = \$ 3.074	per pound					\$ 53,717.60	\$ -	\$	-				
S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-43DD-0050 Total Tower Weight With Guys and Ext. (ib.) = 17720 Total Tower Height(tt) = 157 Section Weight (tb.) = 16557 Site Preparation				,									•			
Total Tower Weight With Guys and Ext (ib) = 17720 Total Tower Height(ft) = 157 Section Weight (b) = 16557						0	EA			\$ -	\$	54,405.67	\$ -	\$ 54,405.67	\$	-
Site Preparation Site Preparation each 0 2 2.00 \$ 675.12 \$ 1,350.24 \$ - 0 \$ - Haul Haul Haul 9 ach 0 1 12.72 \$ 441.04 \$ 5,609.02 \$ - 0 \$ - Setup Blocks Bloomp Chew each 0 3 2.00 \$ 281.84 \$ 563.68 \$ - 0 \$ - Assemble Tower Lattle Astembly each 0 4 28.38 \$ 1,183.92 \$ 33,600.46 \$ - 0 \$ - Install Guy Strand Gov Install each 0 39 2.00 \$ 1,258.65 \$ 2,517.30 \$ - 0 \$ - Helicopter Set 14. Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set 17. Tower Functor each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Functor		S1-D30 Assembly and Erection of Suspension To	wer Type "A3 + 3" as per dwg. 50													
Haul Haufing each 0 1 12.72 \$ 441.04 \$ 5,609.02 \$ - 0 \$ - 5			17720 Total Tower Height(ft) =							Г.	1		•			
Setup Blocks Blocking Criew each 0 3 2.00 \$ 281.84 \$ 563.68 \$ - 0 \$ - Assemble Tower Lattice Assembly each 0 4 28.38 \$ 1,183.92 \$ 33,600.46 \$ - 0 \$		-	Site Preparation		0							=				
Assemble Tower Latice Assembly each 0 4 28.38 \$ 1,183.92 \$ 33,600.46 \$ - 0 \$ - Install Guy Strand Guy Install each 0 39 2.00 \$ 1,258.65 \$ 2,517.30 \$ - 0 \$ - Helicopter Set HL Helicopter each 0 27 0.00 \$ 21,899.72 \$ - 0 \$ - Crane Set Y-Towe Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - Hauf Travellers Hauf Travellers/Glass each 0 7 1.50 \$ 636.64 \$ 954.96 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 3 1.00 \$ 1,444.07 \$ - 0 \$ - Tie-in Tie-in each 0 12			Hauling		0							-				
Install Guy Strand Guy Install each 0 39 2.00 \$ 1,258.65 \$ 2,517.30 \$ - 0 \$ - Helicopter Set HL Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y- Tower Exection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Flumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - Haul Insulators and Travellers Hauf TravellersS each 0 7 1.50 \$ 636.64 \$ 954.96 \$ - 0 \$ - Hang Travellers Hauf Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - Figin each 0 - -<			Blocking Crew		0				•							
Helicopter Set Hul Helicopter Each O O O O O O O O O O O O O			Lattice Assembly		0							-				
Crane Set Y. Tower Fraction each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf TravellersSclias each 0 7 1.50 \$ 636.64 \$ 954.96 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tre-in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - Each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -					0					*	υψ	-				
Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf Travellers each 0 7 1.50 \$ 636.64 \$ 954.96 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tre -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - each 0 - - - - 0 \$ -								,	•	т						
haul Insulators and Travellers Hauf Travellers each 0 7 1.50 \$ 636.64 \$ 954.96 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tre -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ - -					0						<u> </u>					
Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tre-in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$					0											
Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ -					0											
each 0 \$ - \$ - 0 \$ -		ŭ		-				,	. ,							
		ile -in	Tie -in	_			2.00									
1 otal Cost = \$ 3.059 per pound \$ 54,405.67 \$ -		T + 1	Cont - Cont		0				•	*						
		Total	Cost = \$3.059	p per pound					\$ 54,405.67	-	\$	=				



Ī	NALCOR 350 kV HVdc Line Construction	Front 1 (Labrador)				Crew Cost						Total Unit Cost	
nt			Units		Hours per							Manhours and	
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
:	S1-D31 Assembly and Erection of Suspension	Tower Type "A3 + 4.5" as per	Total structure count:	2	EA		9	111,104.93		\$ 55,552.47 \$	<u>-</u>	\$ 55,552.47	(
	S1-D31 Assembly and Erection of Suspension To							(11,104.33		ψ 55,552.71 ψ	_	ψ 55,552.47	Ψ
	Total Tower Weight With Guys and Ext. (lb) =	18278 Total Tower Height(ft) =	162 Section Weight (lb) = 17064									
Ţ;	Site Preparation	Site Preparation	each	2 2	2.00	\$ 675.12	\$ 1,350.24	2,700.49	2	\$ 1,350.24			
-	Haul	Hauling	each	2 1	12.98	\$ 441.04				\$ 5,726.78			
Ī	Setup Blocks	Blocking Crew	each	2 3	2.00	\$ 281.84	\$ 563.68 \$	1,127.37		\$ 563.68			
- [Assemble Tower	Lattice Assembly	each	2 4	29.25	\$ 1,183.92	\$ 34,629.50 \$	69,259.01	2	\$ 34,629.50			
Ī	Install Guy Strand	Guy Install	each	2 39	2.00	\$ 1,258.65	\$ 2,517.30 \$	5,034.60	2				
Ī	Helicopter Set	HL Helicopter	each	2 27	0.00	\$ 21,899.72	\$ - \$	-	2	\$ -			
Ī	Crane Set	Y- Tower Erection	each	2 40	3.50	\$ 1,482.09	\$ 5,187.33	10,374.66	2				
Ī	Plumb Tower	Tower Plumb	each	2 41	2.00	\$ 913.00	\$ 1,826.00	3,652.01	2	\$ 1,826.00			
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	2 7	1.50	6 36.64	\$ 954.96	1,909.91	2	\$ 954.96			
	Hang Travellers	Hang Travellers	each	2 8	1.00	1,444.07	\$ 1,444.07	2,888.13	2	\$ 1,444.07			
	Tie -in	Tie -in	each	2 12	2.00	\$ 676.30	\$ 1,352.60	2,705.21	2	\$ 1,352.60			
			each	2		\$	\$ - \$	-	2	\$ -			
	Tota	I Cost = \$ 3.036	per pound				\$ 55,552.47	111,104.93		\$ 55,552.47			
;	S1-D32 Assembly and Erection of Suspension	Tower Type "A3 + 6" as per	Total structure count:	0	EA		9	-		\$ 55,766.87 \$	-	\$ 55,766.87	\$
;	S1-D32 Assembly and Erection of Suspension To	ower Type "A3 + 6" as per dwg. 505	5573-4622-43DD-0050		_								
_	Total Tower Weight With Guys and Ext. (lb) =	18423 Total Tower Height(ft) =	167 Section Weight (Ib) = 17159									
Ŀ	Site Preparation	Site Preparation	each	0 2		\$ 675. 12			0				
	Haul	Hauling	each	0 1	13.03	\$ 441.04				\$ -			
	Setup Blocks	Blocking Crew	each	0 3	2.00	\$ 2 81.84				\$ -			
Ŀ	Assemble Tower	Lattice Assembly	each	0 4	29.41	1,100102				\$ -			
	Install Guy Strand	Guy Install	each	0 39	2.00	\$ 1,258.65	\$ 2,517.30	-		\$ -			
	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72	\$ - 9	<u>'</u>		\$ -			
<u> </u>	Crane Set	Y- Tower Erection	each	0 40	3.50	\$ 1,482.09		-		\$ -			
L	Plumb Tower	Tower Plumb	each	0 41	2.00	\$ 913.00		-	0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	1.50	6 36.64		-		\$ -			
L	Hang Travellers	Hang Travellers	each	0 8	1.00	,	\$ 1,444.07			\$ -			
Ľ	Tie -in	Tie -in	each	0 12	2.00	676 .30	\$ 1,352.60	-		\$ -			
L			each	0		\$ -	\$ - \$	-	0	\$ -			
	Tota	Il Cost = \$ 3.031	per pound				\$ 55,766.87	-		\$ -			
							_		_				
	S1-D33 Assembly and Erection of Suspension		Total structure count:	4	EA		\$	226,836.93		\$ 56,709.23 \$	-	\$ 56,709.23	\$
;	S1-D33 Assembly and Erection of Suspension To												
Е	Total Tower Weight With Guys and Ext. (lb) =	18890 Total Tower Height(ft) =	172 Section Weight (lb		1 000		4 050 04 14			4.050.04			
	Site Preparation	Site Preparation	each	4 2	2.00	675.12	\$ 1,350.24 \$	5,400.98		\$ 1,350.24			
-	Haul	Hauling	each	4 1	13.25	\$ 441.04	\$ 5,845.55			\$ 5,845.55			
<u> </u>	Setup Blocks	Blocking Crew	each	4 3	2.00					\$ 563.68			
-	Assemble Tower	Lattice Assembly	each	4 4	30.13	1,183.92	\$ 35,667.49 \$			\$ 35,667.49			
	Install Guy Strand	Guy Install	each	4 39	2.00		\$ 2,517.30			\$ 2,517.30			
	Helicopter Set	HL Helicopter	each	4 27	0.00	\$ 21,899.72				\$ -			
- 14	Crane Set	Y- Tower Erection	each	4 40	3.50	\$ 1,482.09				\$ 5,187.33			
-	Plumb Tower	Tower Plumb	each	4 41	2.00	,	\$ 1,826.00 \$			\$ 1,826.00			
1	haul Insulators and Travellers	Haul Travellers&Glass	each	4 7	1.50								
1				4 8	1.00	\$ 1,444.07	\$ 1,444.07 \$	5,776.27	4	\$ 1,444.07			
<u> </u>	Hang Travellers	Hang Travellers	each			,							
<u> </u>		Hang Travellers Tie -in	each	4 8	2.00	\$ 676.30	\$ 1,352.60	5,410.41	4	\$ 1,352.60			
<u> </u>	Hang Travellers Tie -in	Tie -in				\$ 676.30		5,410.41 5 -	4				



<u> </u>	NALCOR 350 kV HVdc Line Construction Fro	ont 1 (Labrador)				Crew Cost						Total Unit Cost	
ent			Units		Hours per							Manhours and	
<u>[</u> [Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal L	nits	Unit Cost	Materials	Materials	Total Materials
	S1-D34 Assembly and Erection of Suspension Tov	ver Type "A3 + 9" as per	Total structure count:	0	EA		\$	-	\$	57,282.63 \$	-	\$ 57,282.63	\$
;	S1-D34 Assembly and Erection of Suspension Tower				_								
г	3 7 7	Total Tower Height(ft) =		= 17829 0 2	2.00	675.40	1 250 24 6		0 6				
_	Site Preparation Haul	Site Preparation	each each	0 2	2.00		\$ 1,350.24 \$ \$ 5,904.43 \$	-	0 \$	-			
_	Setup Blocks	Hauling	each	0 3	2.00		\$ 563.68 \$	-	0 \$				
_	Assemble Tower	Blocking Crew	each	0 4	30.56	3 1,183.92 S	\$ 36,182.01 \$		0 \$				
_	Install Guy Strand	Lattice Assembly	each	0 39	2.00	,	\$ 2,517.30 \$		0 \$				
_	Helicopter Set	Guy Install	each	0 39 27	0.00				0 \$				
<u> </u>	Crane Set	HL Helicopter	each	0 40	3.50	1,482.09	\$ 5,187.33 \$		0 \$				
_	Plumb Tower	Y- Tower Erection	each	0 41	2.00		. , , , ,		0 \$				
_	haul Insulators and Travellers	Tower Plumb	each	0 7	1.50				0 \$				
	Hang Travellers	Haul Travellers&Glass	each	0 8	1.00	1,444.07		-	0 \$				
	Tie -in	Hang Travellers	each	0 12	2.00			-	0 \$				
F.	TIE -III	Tie -in	each	0 12	2.00		\$ 1,352.00 \$		0 \$				
L	Total Co	st = \$ 3.0	002 per pound	U		-	\$ 57,282.63 \$	-	0 1	-			
	Total Co	sι – φ 3.0	102 per pourid				φ 57,202.03 φ	-	4	-			
	S1-D35 Assembly and Erection of Suspension Tov	or Type "A2 + 40 F" ac no	Total atrustura count	1	EA		c	58,539.12	\$	58,539.12 \$		\$ 58,539.12	¢
	S1-D35 Assembly and Erection of Suspension Tower				_ EA		a a	30,339.12	4	50,539.12 \$	-	a 50,539.12	Þ
•		1800 Total Tower Height(ft) =	-	= 18384									
г	Site Preparation		each	1 2	2.00	C75 40	\$ 1,350.24 \\$	1,350.24	4 0	1 250 24			
_	Haul	Site Preparation		1 1	2.00 S			6,033.44	1 \$				
		Hauling	each	1 3		7 111.01		563.68					
	Setup Blocks Assemble Tower	Blocking Crew	each	1 4	2.00 S		\$ 563.68 \$ \$ 37,309.49 \$	37,309.49	1 \$				
_		Lattice Assembly	each					2,517.30					
	Install Guy Strand	Guy Install	each	1 39 1 27	2.00	1,258.65 21,899.72		,	1 \$				
	Helicopter Set Crane Set	HL Helicopter	each	1 40	3.50	5 21,899.72 1,482.09 1		5,187.33	1 \$				
_	Plumb Tower	Y- Tower Erection	each	1 40	2.00				1 \$				
_	haul Insulators and Travellers	Tower Plumb	each	1 7	1.50	913.00 6 36.64	\$ 954.96 \$	1,826.00 954.96	1 \$				
_	Hang Travellers	Haul Travellers&Glass	each	1 8	1.00		\$ 1,444.07 \$	1,444.07	1 \$				
_	Tie -in	Hang Travellers	each each	1 12	2.00	676.30		1,352.60	1 \$				
F.	Tie -in	Tie -in		1 12	2.00	0/0.30			1 \$				
L	Tetal Ca	-t -	each 980 per pound	I		-	\$ - \\$ \$ 58,539.12 \$	- F0 F20 42	1 3				
	Total Co	st = \$ 2.9	980 per pound				\$ 58,539.12 \$	58,539.12	4	58,539.12			
;	S1-D36 Assembly and Erection of Suspension Tov		Total structure count:	2	EA		\$	117,915.89	¢	58,957.95 \$		\$ 58,957.95	¢
	S1-D36 Assembly and Erection of Suspension Tower				LA		Ψ	117,313.03	4	JO,337.33 \$		φ 30,337.33	Ψ
,		1036 Total Tower Height(ft) =		= 18570									
F	Site Preparation	Site Preparation	each	2 2	2.00	675.12	\$ 1,350.24 \$	2,700.49	2 \$	1,350.24			
_	Haul	Hauling	each	2 1	13.78			12,152.89	2 \$				
_	Setup Blocks	Hauting Blocking Crew	each	2 3	2.00		·	1,127.37	2 \$				
	Assemble Tower	Blocking Crew Lattice Assembly	each	2 4	31.83	1,183.92	\$ 37,685.31 \$	75,370.62	2 \$				
<u> </u>			each	2 39	2.00		\$ 2,517.30 \$	5,034.60	2 \$				
7	Install Guy Strand	Guy Inetall		_		21,899.72		-	2 \$				
<i>I</i>	Install Guy Strand Heliconter Set	Guy Install		2 27	0.00				Z 1 J				
<u> </u>	Helicopter Set	HL Helicopter	each	2 27	0.00	,							
 	Helicopter Set Crane Set	HL Helicopter Y- Tower Erection	each each	2 40	3.50	1,482.09	\$ 5,187.33 \$	10,374.66	2 \$	5,187.33			
 	Helicopter Set Crane Set Plumb Tower	HL Helicopter Y- Tower Erection Tower Plumb	each each each	2 40 2 41	3.50 2.00	3 1,482.09 5 913.00	\$ 5,187.33 \$ \$ 1,826.00 \$	10,374.66 3,652.01	2 \$ 2 \$	5,187.33 1,826.00			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y-Tower Erection Tower Plumb Haul Travelers&Glass	each each each each	2 40 2 41 2 7	3.50 S 2.00 S 1.50 S	5 1,482.09 5 913.00 6 636.64	5,187.33 \$ 1,826.00 \$ 954.96 \$	10,374.66 3,652.01 1,909.91	2 \$ 2 \$ 2 \$	5,187.33 1,826.00 954.96			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each	2 40 2 41 2 7 2 8	3.50 \$ 2.00 \$ 1.50 \$ 1.00 \$ 5	6 1,482.09 6 913.00 6 636.64 6 1,444.07	\$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$	10,374.66 3,652.01 1,909.91 2,888.13	2 \$ 2 \$ 2 \$ 2 \$	5,187.33 1,826.00 954.96 1,444.07			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y-Tower Erection Tower Plumb Haul Travelers&Glass	each each each each each each each	2 40 2 41 2 7 2 8 2 12	3.50 \$ 2.00 \$ 1.50 \$ 1.00 \$ 2.00 \$ 1.50 \$ 1.00 \$ 1.	5 1,482.09 5 913.00 6 636.64 6 1,444.07 6 676.30	\$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$ 1,352.60 \$	10,374.66 3,652.01 1,909.91 2,888.13 2,705.21	2 \$ \$ 2 \$ \$ 2 \$ \$ 2 \$ \$	5,187.33 1,826.00 954.96 1,444.07 1,352.60			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in	each each each each each	2 40 2 41 2 7 2 8	3.50 \$ 2.00 \$ 1.50 \$ 1.00 \$ 5	5 1,482.09 5 913.00 6 636.64 6 1,444.07 6 676.30	\$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$	10,374.66 3,652.01 1,909.91 2,888.13	2 \$ 2 \$ 2 \$ 2 \$	5,187.33 1,826.00 954.96 1,444.07 1,352.60			



Description	N	NALCOR 350 kV HVdc Line Construction	n Front 1 (Labrador)						Crew Cost							Total Unit Cost	
## SHODY Assembly and Erection of Suspension Tower Type *A1 + 13" as per ** Total envirous count: ### SHODY Assembly and Erection of Suspension Tower Type *A2 + 13" as per ** Total envirous count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 13" as per ** Total envirous count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per ** Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per ** Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Tower Type *A3 + 15" as per Gentle Count: ### SHODY Assembly and Erection of Suspension Towe	nent		,		Units		Hours per									Manhours and	
St. 1.57 Assembly and Errorition of Stangerimen Transfer Type 1.43 of 15 or profing (SECTA-BUSINESS) 1806 1807 1807 1807 1808 1809		Description			Total	Crew No.	unit		Hourly Rate	Unit Cost		Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
St. 1.57 Assembly and Errorition of Stangerimen Transfer Type 1.43 of 15 or profing (SECTA-BUSINESS) 1806 1807 1807 1807 1808 1809											•			/			
Margin Control Contr						0	_ EA				\$	-	\$	59,900.31	-	\$ 59,900.31	\$
Security	3	•		•		19096											
Held Held Held Held Held Held Held Held	G				Section Weight (ib) =		2.00	¢	675 12	¢ 1.350.2/	1 ¢ 4		2 0		7		
Second Price Control		•						\$									
Committee Comm								\$									
Second Control Contr		· ·						\$				$\overline{}$					
February	_							\$									
Come Bell		,	•		C			\$			_						
Pulm Traver		'	·		C			\$			3 \$	-	0 \$	_			
Page Invalidation and Travellers	F	Plumb Tower		each	C	41	2.00	\$				-	0 \$	-			
Fig.					C	7		\$		· / _		-	0 \$	-			
Fig.	F	lang Travellers	Hang Travellers	each	C	8	1.00	\$			7 \$	-	0 \$	-			
Total Cost S				each	(12	2.00	\$	676.30	\$ 1,352.60	0 \$						
St 1938 Assembly and Erection of Suspension Tower Type 'A3 + 15' as per days 3573 4822-4500-0500 19403	Γ				,			\$	-	\$ -	\$	-	0 \$	-			
Stop Properties 1,000 Assembly and Erection of Sturpension Tower Type '1/42 + 15' as part drug, 50557-4062-4300-0000	_	Tota	al Cost = \$	2.957 per pound						\$ 59,900.3	1 \$	-	\$	=			
Stop Properties 1,000 Assembly and Erection of Sturpension Tower Type '1/42 + 15' as part drug, 50557-4062-4300-0000																	
Total horse Verget Wild Color Programm Color and Each 197 Sociol Verget (Bill Programm) 1907 1907 Sociol Verget (Bill Programm) 1907						4	EA				\$	243,370.71	\$	60,842.68	\$ -	\$ 60,842.68	\$
Site Preparation Steventon	S																
Haul	-		20970 Total Tower He												¬		
Setup Blocks	_		Site Preparation					\$									
Assemble Tower Install Guy Strand Gach 4 4 33.26 \$ 1.185,92 \$ 3.976,52 \$ 157,506.08 4 \$ 3.976,52 \$ 157,506.08 4 \$ 3.976,52 \$ 157,506.08 4 \$ 2.977,50 \$ 1.089,976,52 1.089,976,52 \$ 1.			Hauling					\$									
Install Guy Strand					· '			\$									
Helicopter Set			•		4		_	\$									
Crane Set			·		4			\$			0 \$						
Plumb Tower					4			\$			\$						
Paing Travellers Hang Trav					4			\$									
Hang Travellers	_							\$									
Tie-in					4			φ									
Since Sinc		ŭ			4	<u> </u>		Φ				,					
Site Description of Suspension Tower Type "A3 + 16.5" as per May 505673-4622-43DD-0050	<u>'</u>	ie -III	Tie -in		4	12	2.00	Φ			υ φ •						
St-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-43DD-0050 Total Tower Weight Win Guys and Ext. (b) = 21276 Total Tower Height(t) = 2020 Section Weight (b) = 19659 Site Preparation		Tota	al Cost = \$		4			ų.		T	Q Q						
S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-43DD-0050 Total Tower Weight With Guys and Ext. (ib.) = 21276 total Tower Height(th) = 202 Section Weight (b) = 19659 Site Preparation		100	ai Cost = \$	2.942 per pourid	Į.					Ψ 00,042.00	Ψ	243,370.71	Ψ	00,042.00			
S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-43DD-0050 Total Tower Weight With Guys and Ext. (ib.) = 21276 total Tower Height(th) = 202 Section Weight (b) = 19659 Site Preparation	39 S	61-D39 Assembly and Erection of Suspension	n Tower Type "A3 + 16.5"	as per Total struc	ture count:	3	EA				\$	184.263.18	\$	61.421.06	\$ -	\$ 61.421.06	\$
Total Tower Weight With Guys and Ext. (ib) = 21276 Total Tower Height(Ift) = 202 Section Weight (Ib) = 19659												,		. ,		, , , , , , , , , , , , , , , , , , , ,	
Site Preparation Sike Preparation Base Preparation Comparation Compara						19659											
Haul Hauling each 3 1 14.35 \$ 441.04 \$ 6,329.36 \$ 18,988.07 3 \$ 6,329.36 \$ Setup Blocks Blocking Crew each 3 3 2.00 \$ 281.84 \$ 563.68 \$ 1,691.05 3 \$ 563.68 \$ Assemble Tower Little Assembly each 3 4 33.70 \$ 1,183.92 \$ 39,955.1 \$ 119,686.54 3 \$ 39,895.51 \$ Install Guy Strand each 3 39 2.00 \$ 1,258.65 \$ 2,517.30 \$ 7,551.90 3 \$ 2,517.30 \$ Helicopter Set Hi, Helicopter Set each 3 27 0.00 \$ 21,899.72 \$ - \$ - \$ - 3 \$ - \$ Crane Set	S	Site Preparation	Site Preparation		3		2.00	\$	675.12	\$ 1,350.24	4 \$	4,050.73		1,350.24			
Assemble Tower Lattice Assembly each 3 4 33.70 \$ 1,183.92 \$ 39,895.51 \$ 119,686.54 3 \$ 39,895.51 Install Guy Strand Guy Install each 3 39 2.00 \$ 1,258.65 \$ 2,517.30 \$ 7,551.90 3 \$ 2,517.30 Helicopter Set H. Helicopter each 3 27 0.00 \$ 21,899.72 \$ - \$ - 3 \$ - Crane Set Y- Tower Enrich each 3 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ 15,561.99 3 \$ 5,187.33 Plumb Tower Tower Flumb each 3 41 2.00 \$ 913.00 \$ 1,826.00 \$ 5,478.01 3 \$ 1,826.00 haul Insulators and Travellers Haid Traveller/Solator each 3 7 1.50 \$ 636.64 \$ 954.96 \$ 2,844.87 3 \$ 954.96 Hang Travellers Haid Traveller/Solator each 3 8 1.00 \$ 1,444.07 \$ 4,332.20 3 \$ 1,444.07			Hauling	each	3	1	14.35	\$	441.04			18,988.07	3 \$	6,329.36			
Install Guy Strand			Blocking Crew	each	3	3		\$	281.84								
Helicopter Set HL Helicopter each 3 27 0.00 \$ 21,899.72 \$ - \$ - 3 \$ - Crane Set y. Tower Eruction each 3 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ 15,561.99 3 \$ 5,187.33 Plumb Tower Tower Plumb each 3 41 2.00 \$ 913.00 \$ 1,826.00 \$ 5,478.01 3 \$ 1,826.00 haul Insulators and Travellers Hauf TravellersScliss each 3 7 1.50 \$ 636.64 954.96 \$ 2,864.87 3 \$ 954.96 Hang Travellers Hang Travellers each 3 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ 4,332.20 3 \$ 1,444.07 Tie -in Tie -in each 3 12 2.00 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60			Lattice Assembly	each	3	·		\$	1,183.92	\$ 39,895.5	1 \$						
Crane Set y- Tower Feetion each 3 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ 15,561.99 3 \$ 5,187.33 Plumb Tower Tower Plumb each 3 41 2.00 \$ 913.00 \$ 1,826.00 \$ 5,478.01 3 \$ 1,826.00 haul Insulators and Travellers Hauf Travellers each 3 7 1.50 \$ 636.64 \$ 954.96 \$ 2,864.87 3 \$ 954.96 Hang Travellers Hang Travellers each 3 8 1.00 \$ 1,444.07 \$ 4,332.20 3 \$ 1,444.07 Tie -in Tie -in each 3 12 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60		•	Guy Install	each	3			\$		<u> </u>	0 \$	7,551.90		,			
Plumb Tower Tower Plumb each 3 41 2.00 \$ 913.00 \$ 1,826.00 \$ 5,478.01 3 \$ 1,826.00 haul Insulators and Travellers Hauf Travellers each 3 7 1.50 \$ 636.64 \$ 954.96 \$ 2,864.87 3 \$ 954.96 Hang Travellers Hang Travellers each 3 8 1.00 \$ 1,444.07 \$ 4,332.20 3 \$ 1,444.07 Tie -in Tie -in each 3 12 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60 Figure 1 Each 3 12 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60			HL Helicopter				_	\$,		\$	-					
haul Insulators and Travellers Hauf Travellers (class) each 3 7 1.50 \$ 636.64 \$ 954.96 \$ 2,864.87 3 \$ 954.96 Hang Travellers Hang Travellers each 3 8 1.00 \$ 1,444.07 \$ 4,332.20 3 \$ 1,444.07 Tie -in Tie -in each 3 12 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60 Feech 3 1 2 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60			Y- Tower Erection			10		\$									
Hang Travellers Hang Travellers each 3 8 1.00 \$ 1,444.07 \$ 4,332.20 3 \$ 1,444.07 Tie -in Tie -in each 3 12 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60 each 3 \$ - \$ - \$ - 3 \$ -	_		Tower Plumb		3			\$									
Tie -in Tie -in each 3 12 2.00 \$ 676.30 \$ 1,352.60 \$ 4,057.81 3 \$ 1,352.60 each 3 \$ - \$ - \$ - 3 \$ - - 3 \$ - - 3 \$ - - - 3 \$ - - - - 3 \$ - <td< td=""><td><u> </u></td><td></td><td>Haul Travellers&Glass</td><td></td><td>3</td><td></td><td></td><td>\$</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	<u> </u>		Haul Travellers&Glass		3			\$									
each 3 \$ - \$ - 3 \$ -	_	ŭ	Hang Travellers					\$. ,		,					
	<u> </u> T	ie -in	Tie -in		3	12	2.00	\$			0 \$	4,057.81					
Total Cost = \$ 2.934 per pound \$ 61,421.06 <u>\$ 184,263.18</u> <u>\$ 61,421.06</u>					3			\$			\$						
		Tota	al Cost = \$	2.934 per pound						\$ 61,421.06	6 \$	184,263.18	\$	61,421.06			



	NALCOR 350 kV HVdc Line Construction Front	1 (Labrador)				Crew Cost						Total Unit Cost	
Payment		, ,	Units		Hours per							Manhours and	
Item	Description			Total Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials T	otal Materials
V-H18	Assembly and Erection of Suspension Towe			er Setting Ratio) Helicopter	100%	Crane					
V::D40	S1-D40 Assembly and Erection of Suspension Tower	Type "A4 + 0" as per dw	g. Total structure co	ount: 0	EA			\$ -	\$	66,617.12	\$ -	\$ 66,617.12	5
	S1-D40 Assembly and Erection of Suspension Tower Typ												
	Total Tower Weight With Guys and Ext. (lb) = 21808	Total Tower Height(ft) =		Weight (lb) = 21118									
	Site Preparation	Site Preparation	each	0 2	2.00	\$ 675.12	T .,		0 \$	-			
	Haul	Hauling	each	0 1	15.12	\$ 441.04		\$ -	0 \$	-			
	Setup Blocks	Blocking Crew	each	0 3	2.00	\$ 281.84		\$ -	0 \$	-			
	Assemble Tower	Lattice Assembly	each	0 4	36.20	\$ 1,183.92	\$ 42,857.37		0 \$	-			
	Install Guy Strand	Guy Install	each	0 39	3.00	\$ 1,258.65	·	\$ -	0 \$	-			
	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72		\$ -	0 \$	-			
	Crane Set	Y- Tower Erection	each	0 40	3.50	\$ 1,482.09			0 \$	-			
	Plumb Tower	Tower Plumb	each	0 41	2.00	\$ 913.00			0 \$	-			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.50	\$ 636.64		\$ -	0 \$	-			
	Hang Travellers	Hang Travellers	each	0 8	1.00	\$ 1,444.07			0 \$	-			
	Tie -in	Tie -in	each	0 12	2.00	\$ 676.30			0 \$	-			
	T-1-1 01	Φ 0.04	each	0		-		-	0 \$	-			
	Total Cost =	\$ 2.94	7 per pound				\$ 66,617.12	\$ -	\$	=			
VD44	S4 D44 Accomply and Freetien of Symmonology Tower	T.m. A.4 . 4 E	Total atmostores as	ount: 0	EA			\$ -	\$	CO 442 C4	¢	¢ CO 440 C4	
V::D41	S1-D41 Assembly and Erection of Suspension Tower				EA			3	Þ	68,143.64	-	\$ 68,143.64	•
	S1-D41 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (1b) = 22674												
	Total Tower Weight With Guys and Ext. (lb) = 22674 Site Preparation		each	Weight (lb) = 21934 0 2	2.00	\$ 675.12	\$ 1,350.24	¢	0 \$				
	Haul	Site Preparation	each	0 2	15.55	\$ 441.04			0 \$	<u>-</u>			
	Setup Blocks	Hauling	each	0 3	2.00	\$ 281.84		\$ -	0 \$	<u> </u>			
	Assemble Tower	Blocking Crew Lattice Assembly	each	0 4	37.60	\$ 1,183.92		\$ -	0 \$				
	Install Guy Strand	Guy Install	each	0 39	3.00	\$ 1,258.65		\$ -	0 \$				
	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72		\$ -	0 \$				
	Crane Set	Y- Tower Erection	each	0 40	3.50	\$ 1,482.09		\$ -	0 \$	_			
	Plumb Tower	Tower Plumb	each	0 41	2.00	\$ 913.00		\$ -	0 \$	_			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	\$ 636.64		\$ -	0 \$	_			
	Hang Travellers	Hang Travellers	each	0 8	1.00	\$ 1,444.07		\$ -	0 \$	-			
	Tie -in	Tie -in	each	0 12	2.00	\$ 676.30	<u> </u>	\$ -	0 \$	-			
			each	0			\$ -	\$ -	0 \$	_			
	Total Cost =	\$ 2.92	21 per pound				\$ 68,143.64	\$ -	\$	=			
		•	1'''			-	, , , , , , ,	,					
V::D42	S1-D42 Assembly and Erection of Suspension Tower	Type "A4 + 3" as per	Total structure co	ount: 0	EA			\$ -	\$	69,474.92	\$ -	\$ 69,474.92	5
	S1-D42 Assembly and Erection of Suspension Tower Type	oe "A4 + 3" as per dwg. 5	05573-4622-43DD-005	56									
	Total Tower Weight With Guys and Ext. (lb) = 23313	Total Tower Height(ft) =	116 Section \	Weight (lb) = 22523									
	Site Preparation	Site Preparation	each	0 2	2.00			\$ -	0 \$				
	Haul	Hauling	each	0 1	15.86	\$ 441.04		\$ -	0 \$	-			
	Setup Blocks	Blocking Crew	each	0 3	2.00	\$ 281.84		\$ -	0 \$	-			
	Assemble Tower	Lattice Assembly	each	0 4	38.61	\$ 1,183.92			0 \$	-			
	Install Guy Strand	Guy Install	each	0 39	3.00	\$ 1,258.65		\$ -	0 \$	-			
	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72	•	\$ -	0 \$	-			
	Crane Set	Y- Tower Erection	each	0 40	3.50	\$ 1,482.09		\$ -	0 \$	-			
	Plumb Tower	Tower Plumb	each	0 41	2.00	\$ 913.00		\$ -	0 \$	-			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	\$ 636.64			0 \$	-			
	Hang Travellers	Hang Travellers	each	0 8	1.00	\$ 1,444.07			0 \$	-			
	Tie -in	Tie -in	each	0 12	2.00	\$ 676.30			0 \$	-			
			each	0			\$ -	\$ -	0 \$	-			
	Total Cost =	\$ 2.90	94 per pound				\$ 69,474.92	\$ -	\$	-			



1	NALCOR 350 kV HVdc Line Construction	Front 1 (Labrador)				Crew Cost						Total Unit Cost	
nt ,	Opporintion		Units Total	O N	Hours per	Hawah Data	11-40-4	Subtotal	Linito	Limit On at	Materials	Manhours and	Total Materials
Ľ	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	rotal Materials
9	1-D43 Assembly and Erection of Suspension	Tower Type "A4 + 4.5" as per	Total structure count:	0	EA			\$ -		\$ 71,314.78 \$	-	\$ 71,314.78	 \$
	1-D43 Assembly and Erection of Suspension To							•		7 7		, , , , , ,	
	Total Tower Weight With Guys and Ext. (lb) =	24177 Total Tower Height(ft) =	121 Section Weight (lb) =	23336									
9	ite Preparation	Site Preparation	each	0 2	2.00	675.12	\$ 1,350.24	\$ -	0	\$ -			
F	laul	Hauling	each	0 1	16.29	441.04	\$ 7,183.32	\$ -	0				
5	etup Blocks	Blocking Crew	each	0 3	2.00	281.84	\$ 563.68	\$ -	0	\$ -			
A	ssemble Tower	Lattice Assembly	each	0 4	40.00	1,183.92	\$ 47,358.31	\$ -	0	\$ -			
	nstall Guy Strand	Guy Install	each	0 39	3.00	1,258.65	\$ 3,775.95	\$ -	0				
	lelicopter Set	HL Helicopter	each	0 27	0.00	,		\$ -	0	\$			
	Crane Set	Y- Tower Erection	each	0 40	3.50	1,482.09	\$ 5,187.33		0				
F	Plumb Tower	Tower Plumb	each	0 41	2.00	913.00			0	\$ -			
	aul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00				0	\$ -			
_	lang Travellers	Hang Travellers	each	0 8	1.00	1,444.07	\$ 1,444.07		0				
1	ïe -in	Tie -in	each	0 12	2.00	676.30	\$ 1,352.60	\$ -	0				
L			each	0	9	-	\$ -	· ·	0				
	Tota	Il Cost = \$ 2.882	per pound				\$ 71,314.78	-		\$ -			
	1-D44 Assembly and Erection of Suspension		Total structure count:	0	EA			-		\$ 71,574.05 \$	-	\$ 71,574.05	\$
5	1-D44 Assembly and Erection of Suspension To												
_	Total Tower Weight With Guys and Ext. (lb) =	24342 Total Tower Height(ft) =	126 Section Weight (lb) =										
	ite Preparation	Site Preparation	Guon	0 2	2.00				0				
_	laul	Hauling	each	0 1	16.35	441.04			0				
	Setup Blocks	Blocking Crew	each	0 3	2.00	201101			0				
_	ssemble Tower	Lattice Assembly	each	0 4	40.20		\$ 47,590.96		0				
	nstall Guy Strand	Guy Install	each	0 39	3.00	1,258.65			0				
	lelicopter Set	HL Helicopter	each	0 27	0.00	21,899.72	Ψ	\$ -	0				
_	Crane Set	Y-Tower Erection	each	0 40	3.50	1,482.09			0	-			
_	Plumb Tower	Tower Plumb	Cacii	0 41	2.00	913.00			0				
	aul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	6 36.64			0				
	lang Travellers	Hang Travellers	each	0 8	1.00		\$ 1,444.07		0				
<u> </u>	ïe -in	Tie -in	each	0 12	2.00	676 .30			0	-			
L		10 1 0 0070	each	0		,	\$ -	Υ	0				
	lota	I Cost = \$ 2.879	per pound				\$ 71,574.05	\$		\$ -			
	4 B45 4 11 15 4 40 1	T T "A4 75"	Total atmostore account.		E 4			\$ -		¢ 70.470.74 ¢		¢ 70.470.74	
	1-D45 Assembly and Erection of Suspension		Total structure count:	0	EA			-		\$ 73,473.74 \$	-	\$ 73,473.74	Þ
	51-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) =	25232 Total Tower Height(ft) =	131 Section Weight (lb) =	24291									
-	Site Preparation			0 2	2.00	675.12	\$ 1,350.24	¢	0	¢			
	laul	Site Preparation		0 2	16.79		\$ 1,350.24 \$ 7,405.00	\$ - \$ -	0				
	etup Blocks	Hauling		0 3	2.00		· · · · · · · · · · · · · · · · · · ·		0				
_	ssemble Tower	Blocking Crew	each	0 4	41.64	1,183.92	\$ 49,295.59		0				
_	nstall Guy Strand	Lattice Assembly	each	0 39	3.00		\$ 49,295.59		0				
	lelicopter Set	Guy Install		0 27	0.00	21,899.72		ъ <u>-</u> \$ -	0				
	Crane Set	HL Helicopter	each each	0 40	3.50		\$ - \$ 5,187.33	Ψ	0	7			
_	Plumb Tower	Y- Tower Erection		0 41	2.00		\$ 1,826.00		0				
_	aul Insulators and Travellers	Tower Plumb		0 7	2.00				0				
-	aul Insulators and Travellers lang Travellers	Haul Travellers&Glass		0 8	1.00				0				
	iang travellers ie -in	Hang Travellers		0 8	2.00	· /			0				
_	IC =III	Tie -in		0 12	2.00		\$ 1,352.60		_	-			
_													
_	Tata	I Cost = \$ 2.857	per pound	U .		-	\$ 73,473.74	•		\$ -			



Ī	NALCOR 350 kV HVdc Line Construction Front 1 (I	Labrador)				Crew Cost						Total Unit Cost	
t			Units		Hours per							Manhours and	
[Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D46 Assembly and Erection of Suspension Tower Typ	ω "Δ1 ± 0" as nor	Total structure count:	0	EA			\$ -		\$ 74,805.02 \$	<u>-</u>	\$ 74,805.02	s
	S1-D46 Assembly and Erection of Suspension Tower Type "A							-		Ψ 14,005.02 Ψ		Ψ 14,000.02	Ψ
	Total Tower Weight With Guys and Ext. (lb) = 25871	Total Tower Height(ft) =	136 Section Weight (lb) =	24879									
5	Site Preparation	Site Preparation	each	0 2	2.00	675.12	\$ 1,350.24	\$ -	0	\$ -			
I	Haul	Hauling	each	0 1	17.10	441.04	7,541.69	\$ -	0	\$ -			
	Setup Blocks	Blocking Crew	each	0 3	2.00	281.84	563.68	\$ -	0				
7	Assemble Tower	Lattice Assembly	each	0 4	42.65	1,183.92	50,490.17	\$ -	0	\$ -			
Ī	Install Guy Strand	Guy Install	each	0 39	3.00	1,258.65	3,775.95	\$ -	0	\$ -			
ŀ	Helicopter Set	HL Helicopter	each	0 27	0.00	21,899.72	5 -	\$ -	0	\$ -			
(Crane Set	Y- Tower Erection	each	0 40	3.50	1,482.09	5,187.33	\$ -	0	\$ -			
F	Plumb Tower	Tower Plumb	each	0 41	2.00	913.00	\$ 1,826.00	\$ -	0	\$ -			
ŀ	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	6 36.64	\$ 1,273. 27	\$ -	0	\$ -			
Ī	Hang Travellers	Hang Travellers	each	0 8	1.00	1,444.07	\$ 1,444.07	\$ -	0	\$ -			
-	Tie -in	Tie -in	each	0 12	2.00	676.30	1,352.60	\$ -	0				
Π			each	0	(- :	5 -	\$ -	0	\$ -			
	Total Cost =	\$ 2.843	per pound				\$ 74,80 5.02	\$ -		\$ -			
	S1-D47 Assembly and Erection of Suspension Tower Typ			0	EA			\$ -		\$ 76,644.88 \$	-	\$ 76,644.88	\$
,	S1-D47 Assembly and Erection of Suspension Tower Type "A	A4 + 10.5" as per dwg.	505573-4622-43DD-0056	·									
	Total Tower Weight With Guys and Ext. (lb) = 26735	Total Tower Height(ft) =	141 Section Weight (lb) =	25693				*					
,	Site Preparation	Site Preparation	each	0 2	2.00				0				
_	Haul	Hauling	each	0 1	17.53	441.04			0				
	Setup Blocks	Blocking Crew	each	0 3	2.00	281.84			0				
/	Assemble Tower	Lattice Assembly	each	0 4	44.04	1,183.92			0				
	Install Guy Strand	Guy Install	each	0 39	3.00	1,200.00		\$ -	0				
	Helicopter Set	HL Helicopter	each	0 27	0.00	21,899.72		\$ -	0				
(Crane Set	Y- Tower Erection	each	0 40	3.50	1,482.09		\$ -	0				
I	Plumb Tower	Tower Plumb	each	0 41	2.00	913.00		\$ -	0				
ł	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	6 36.64	\$ 1,273.27	\$ -	0				
ŀ	Hang Travellers	Hang Travellers	each	0 8	1.00	1,444.07	1,444.07	\$ -	0				
L	Tie -in	Tie -in	each	0 12	2.00	676.30	1,352.60	\$ -	0				
			each	0		-	T	\$ -	0	\$ -			
	Total Cost =	\$ 2.825	per pound				76,644.88	\$ -		\$ -			
													_
	S1-D48 Assembly and Erection of Suspension Tower Typ		Total structure count:	0	EA			\$ -		\$ 76,849.31 \$	-	\$ 76,849.31	\$
,	S1-D48 Assembly and Erection of Suspension Tower Type "A												
	Total Tower Weight With Guys and Ext. (lb) = 26876	Total Tower Height(ft) =	146 Section Weight (lb) =	25783									
	Site Preparation	Site Preparation	each	0 2	2.00		1,350.24		0	\$ -			
	Haul	Hauling	each	0 1	17.58				0				
I	Setup Blocks	Blocking Crew	each	0 3	2.00				0				
1	Assemble Tower	Lattice Assembly	each	0 4	44.20	1,183.92	52,324.55		0				
1				0 39	3.00	1,258.65	\$ 3,775.95		0				
1 0 1	Install Guy Strand	Guy Install	each										
	Helicopter Set	Guy Install HL Helicopter	each	0 27	0.00	21,000.72		\$ -	0	•			
1 5 7 1 1 0	Helicopter Set Crane Set		each each	0 27 0 40	0.00 3.50	1,482.09	5,187.33	\$ -	0	\$ -			
1 1 1	Helicopter Set Crane Set Plumb Tower	HL Helicopter	each each each	0 27 0 40 0 41	0.00 \$ 3.50 \$ 2.00 \$	1,482.09 913.00	5,187.33 5 1,826.00	\$ - \$ -	0	\$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection	each each each each	0 27 0 40 0 41 0 7	0.00 \$ 3.50 \$ 2.00 \$ 2.00 \$ 3.50	1,482.09 913.00 6 636.64	5,187.33 5 1,826.00 5 1,273.27	\$ - \$ - \$ -	0 0	\$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each	0 27 0 40 0 41 0 7 0 8	0.00 \$ 3.50 \$ 2.00 \$ 2.00 \$ 1.00 \$ 3.50 \$ 3.	1,482.09 5 913.00 5 636.64 5 1,444.07	5,187.33 5,1826.00 5,1,273.27 5,1,444.07	\$ - \$ - \$ -	0 0 0	\$ - \$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	0 27 0 40 0 41 0 7 0 8 0 12	0.00 \$ 3.50 \$ 2.00 \$ 2.00 \$ 1.00 \$ 2.00 \$ 2.00	5 1,482.09 6 913.00 6 636.64 6 1,444.07 6 676.30	5,187.33 1,826.00 1,273.27 1,444.07 1,352.60	\$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
1 2 7 1 1	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Hauf Travellers&Glass Hang Travellers Tie -in	each each each each each each each	0 27 0 40 0 41 0 7 0 8	0.00 \$ 3.50 \$ 2.00 \$ 2.00 \$ 1.00 \$ 3.50 \$ 3.	5 1,482.09 6 913.00 6 636.64 6 1,444.07 6 676.30	5,187.33 1,826.00 1,273.27 1,444.07 1,352.60	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ -			



	NALCOR 350 kV HVdc Line Construction Front 1 (L	abrador)						Crew Cost						Total Unit Cost	
ent		·		Units		Hours per								Manhours and	
	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	04.044 11 15 41 40 1 7 7	"A 4 40 F"	T-1-1-1-1		•					•		¢ 70.740.00	•	A 70.740.00	
	S1-D49 Assembly and Erection of Suspension Tower Type				0	EA				-		\$ 78,748.99	-	\$ 78,748.99	\$
	S1-D49 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (lb) = 27766	Total Tower Height(ft) =		Section Weight (lb) =	26623										
ı	Site Preparation	5 ()	each	Section Weight (Ib) =		2.00	Φ.	675.12	\$ 1,350.24	-	0	φ.	7		
	Haul	Site Preparation	each	0		18.02	Φ	441.04		Ψ .	0		-		
	Setup Blocks	Hauling	each	0		2.00	φ	281.84		\$ -			+		
	Assemble Tower	Blocking Crew	each	0		45.64	ψ	1,183.92		\$ -			+		
	Install Guy Strand	Lattice Assembly	each	0		3.00	Φ	1,163.92		\$ -			+		
	Helicopter Set	Guy Install HL Helicopter	each	0		0.00	ψ φ	21,899.72		\$ -			+		
	Crane Set	Y- Tower Erection	each	0		3.50	\$	1,482.09		7	0	·	=		
	Plumb Tower	Tower Plumb	each	0		2.00	\$	913.00	· · · · · · · · · · · · · · · · · · ·		0		+		
	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$	6 36.64	·			*	+		
	Hang Travellers	Hang Travellers	each	0	8	1.00	\$	1,444.07					+		
	Tie -in	Tie -in	each	0		2.00	\$	676.30					1		
	110 111	116 111	each	0		2.00	\$	-		\$ -	_		1		
,	Total Cost =	\$ 2.805	5 per pound				Y		\$ 78,748.99			\$ -			
			-	_							_	*	_		
0	S1-D50 Assembly and Erection of Suspension Tower Type	e "A4 + 15" as per	Total struct	ure count:	0	EA				\$ -		\$ 80,648.68	\$ -	\$ 80,648.68	\$
	S1-D50 Assembly and Erection of Suspension Tower Type "A											+ ,	•	*	,
	Total Tower Weight With Guys and Ext. (lb) = 28657	Total Tower Height(ft) =		Section Weight (lb) =	27463										
1	Site Preparation	Site Preparation	each	0		2.00	\$	675.12	\$ 1,350.24	-	0	\$ -	7		
	Haul	Hauling	each	0		18.46	\$	441.04			_		7		
	Setup Blocks	Blocking Crew	each	0		2.00	\$	281.84							
	Assemble Tower	Lattice Assembly	each	0		47.08	\$	1,183.92			-		7		
	Install Guy Strand	Guy Install	each	0	39	3.00	\$	1,258.65			0	\$ -			
	Helicopter Set	HL Helicopter	each	0	27	0.00	\$	21,899.72		\$ -	0	\$ -	7		
	Crane Set	Y- Tower Erection	each	0	40	3.50	\$	1,482.09		\$ -	0	\$ -	7		
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$	913.00	\$ 1,826.00	\$ -	0	\$ -			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$	6 36.64	\$ 1,273.27	\$ -	0	\$ -			
	Hang Travellers	Hang Travellers	each	0	8	1.00	\$	1,444.07	\$ 1,444.07	\$ -	0	\$ -			
	Tie -in	Tie -in	each	0	12	2.00	\$	676 .30	\$ 1,352.60	\$ -	0	\$ -			
			each	0			\$		\$ -	\$ -	0	\$ -			
	Total Cost =	\$ 2.788	8 per pound						\$ 80,648.68	\$ -		\$ -			
													_		
1	S1-D51 Assembly and Erection of Suspension Tower Type	e "A4 + 16.5" as per	Total struct	ure count:	0	EA				\$ -		\$ 81,979.96	-	\$ 81,979.96	\$
	S1-D51 Assembly and Erection of Suspension Tower Type "A														
	Total Tower Weight With Guys and Ext. (lb) = 29296	Total Tower Height(ft) =		Section Weight (lb) =	28052								-		
	Site Preparation	Site Preparation	each	0	2	2.00	\$	675.12					_		
	Haul	Hauling	each		1	18.77	\$	441.04					_		
	Setup Blocks	Blocking Crew	each	0	3	2.00	\$	281.84					_		
	Assemble Tower	Lattice Assembly	each	0	4	48.08	\$	1,183.92					4		
	Install Guy Strand	Guy Install	each	0		3.00	\$	1,258.65	<u> </u>	-			4		
	Helicopter Set	HL Helicopter	each	0		0.00	\$	21,899.72		\$ -	0	т	4		
	Crane Set	Y- Tower Erection	each	0	10	3.50	\$	1,482.09			0		4		
	Plumb Tower	Tower Plumb	each	0		2.00	\$	913.00					4		
	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$	636.64				•	4		
	U. I	Hang Travellers	each	0		1.00	\$	1,444.07					4		
	Hang Travellers					2.00	0	676.30	\$ 1,352.60		0	\$ -	i		
	Hang Travellers Tie -in	Tie -in	each	0	_	2.00	φ			-					
	3	Tie -in	each each 7 per pound	0	_	2.00	\$	-	\$ 1,332.00 \$ - \$ 81,979.96	\$ -	0		_		



1	NALCOR 350 kV HVdc Line Construction Front	i (Labiaudi)				Crew Cost						Total Unit Cost	
t			Units		Hours per							Manhours and	
	Description		To	otal Crew	No. unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
							_					•	
	S1-D52 Assembly and Erection of Suspension Tower		Total structure cou		EA		\$	-		\$ 83,306.25 \$	-	\$ 83,306.25	\$
•	S1-D52 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (lb) = 2993				20								
	Site Preparation	- 0 ()	166 Section We	0 2		\$ 675.12	\$ 1,350.24 \$		0	¢			
	Haul	Site Preparation	each	0 2		\$ 441.04	\$ 1,330.24 \$ \$ 8,414.59 \$		0	\$ -			
	Setup Blocks	Hauling	each	0 3		\$ 281.84	\$ 563.68 \$		0				
	Assemble Tower	Blocking Crew	each		49.09	\$ 1,183.92	\$ 58,118.51 \$		0				
_	Install Guy Strand	Lattice Assembly Guy Install	each	0 3		\$ 1,258.65	\$ 3,775.95 \$		0				
	Helicopter Set	Guy Install HL Helicopter	each	0 2		. ,	\$ - \$						
_	Crane Set	Y- Tower Erection	each	0 4		\$ 1,482.09	\$ 5,187.33 \$		0				
_	Plumb Tower	Tower Plumb	each	0 4		\$ 913.00			0				
	haul Insulators and Travellers	Haul Travellers&Glass	each			\$ 636.64			0				
_	Hang Travellers	Hang Travellers	each	0 8		\$ 1,444.07			0				
_	Tie -in	Tie -in	each	0 1:		\$ 676.30							
-	110 111	116-111	each	0	2.00		\$ - \$		0				
<u> </u>	Total Cost =	\$ 2.76	7 per pound	<u> </u>		· ·	\$ 83,306.25 \$			\$ -			
	. 5141 5551	4 2 3	. I be beare				*************************************			T			
5	S1-D53 Assembly and Erection of Suspension Tower	Type "A4 + 19.5" as per	Total structure cou	ınt: 0	EA		\$			\$ 84,024.25 \$	-	\$ 84,024.25	\$
	S1-D53 Assembly and Erection of Suspension Tower Typ									¥ 0.,0220 ¥		¥ 0.1,02.1120	•
	Total Tower Weight With Guys and Ext. (lb) = 3030		171 Section We		56								
c	Site Preparation	Site Preparation	each	0 2		\$ 675.12	\$ 1,350.24 \$	-	0	\$ -			
									0				
_		*	each	0 1	19 25	\$ 441.04							
F	Haul	Hauling	each each	0 1	101-0	Ψ 111.01							
ŀ	Haul Setup Blocks	Hauling Blocking Crew	each	0 1	2.00	\$ 281.84	\$ 563.68 \$	-	0	\$ -			
} !	Haul Setup Blocks Assemble Tower	Hauling Blocking Crew Lattice Assembly	each each	0 3	2.00 49.63	\$ 281.84 \$ 1,183.92	\$ 563.68 \$ \$ 58,762.78 \$	-	0	\$ - \$ -			
F 	Haul Setup Blocks Assemble Tower Install Guy Strand	Hauling Blocking Crew Lattice Assembly Guy Install	each each each	0 3	2.00 49.63 3.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$	-	0 0	\$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower	Hauling Blocking Crew Lattice Assembly	each each	0 3	2.00 49.63 3.00 0.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$	- - -	0 0 0	\$ - \$ - \$ - \$ -			
H 5 H 1	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Hauling Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y-Tower Erection	each each each each each each	0 3 0 4 0 3 0 2	2.00 49.63 3.00 0.00 3.50	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$	- - -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
H C F	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hauling Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y-Tower Erection Tower Plumb	each each each each each each each	0 3 0 4 0 3 0 2 0 4	2.00 49.63 3.00 0.00 3.50 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$	- - - - -	0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HIL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	0 3 0 4 0 3 0 2 0 4 0 4	2.00 49.63 3.00 0.00 3.50 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$	- - - - -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers	each each each each each each each each	0 3 0 4 0 33 0 2 0 4 0 4	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$	-	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HIL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	0 3 0 4 0 3 0 2 0 4 0 4 0 7	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$	-	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in	each each each each each each each each	0 3 0 4 0 3 0 2 0 4 0 4 0 7	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$		0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in	each each each each each each each each	0 3 0 4 0 3 0 2 0 4 0 4 0 7	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$		0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost =	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Fretion Tower Plumb Haul Travellers Adlass Hang Travellers Tie-in	each each each each each each each each	0 3 0 4 0 3; 0 2; 0 4; 0 7 0 8 0 1;	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ 84,024.25 \$	-	0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost =	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in \$ 2.76	each each each each each each each each	0 33 0 4 0 33 0 22 0 44 0 7 0 8 0 13	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2,00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ 84,024.25 \$		0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86.290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower	Hauling Blocking Crew Lattice Assembly Cuy Install HL Helicopter Y- Tower Flerition Tower Plumb Haud Travellers Glass Hang Travellers Tie -in \$ 2.76	each each each each each each each each	0 33 0 4 0 33 0 22 0 44 0 7 0 8 0 13	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2,00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ 84,024.25 \$		0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
H S A H H T T T T T T T T	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost =	Hauling Blocking Crew Lattice Assembly Cuy Install HL Helicopter Y- Tower Flerition Tower Plumb Haud Travellers Glass Hang Travellers Tie -in **S 2.76 **PT Type "B1" Type "B1 + 0" as per dwg. 508 per "B1 + 0" as per dwg. 508	each each each each each each each each	0 3 0 4 0 33 0 22 0 44 0 7 0 8 0 12 0 12 0 T Setting Ratio	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2,00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ 84,024.25 \$		0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (lb) = 3184	Hauling Blocking Crew Lattice Assembly Cuy Install HL Helicopter Y- Tower Frection Tower Plumb Hauf Travellers Tie -in	each each each each each each each each	0 3 0 4 0 33 0 22 0 44 0 7 0 8 0 12 0 12 0 T Setting Ratio	2.00 49.63 3.00 0.00 3.50 2.00 1.00 2.00 0.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ \$ 84,024.25 \$		0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
H	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower	Hauling Blocking Crew Lattice Assembly Cuy Install HL Helicopter Y-Tower Frection Tower Plumb Hauf Travellers Tie -in Type "B1" Type "B1" Type "B1 + 0" as per dwg. 5056 Total Tower Height(ft) = Site Preparation	each each each each each each each each	0 3 0 4 0 3 0 2 0 4 0 4 0 7 0 8 0 1 0 0	2.00 49.63 3.00 0.00 3.50 2.00 1.00 2.00 0.00 EA	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ \$ 84,024.25 \$ \$ \$ 1,350.24 \$ \$		0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower naul Insulators and Travellers Hang Travellers Tile -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Preparation Haul	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Flection Tower Plemb Haul Travellers Glass Hang Travellers Tie -in **S\$2.76 **PT Type "B1" Type "B1 + 0" as per dwg. 508 6 Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	0 3 0 4 0 3 0 2 0 4 0 4 0 7 0 8 0 12 0 13 0 7 0 8 0 12 0 3 0 2 0 3 0 4 0 7 0 8 0 12 0 3 0 2 0 3 0 2 0 3 0 4 0 7 0 8 0 12 0 12	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 1.00 EA	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ \$ \$ 84,024.25 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 6,992.41 \$	- - - - - - - - - - - - - - - - - - -	0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	-	\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Firetion Tower Pirarbillers Haul Travellers Glass Hang Travellers Tie -in Strate B1" Type "B1" Type "B1 + 0" as per dwg. 503 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	0 3 0 4 0 33 0 22 0 44 0 7 0 8 0 12 0 12 0 12 0 13 0 2	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 1.00 EA	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ \$ 84,024.25 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 563.68 \$		0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	-	\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation Haul Setup Blocks Assemble Tower	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Flection Tower Plemb Haul Travellers Gilass Hang Travellers Tie -in **S 2.76 **PT Type "B1" Type "B1 + 0" as per dwg. 508 6 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	0 33 0 4 0 33 0 22 0 44 0 7 0 8 0 13 0 13 0 7 0 8 0 13 0 13 0 14 0 7 0 8 0 15 0 15 0 15 0 16 0 17 0 17 0 18 0 18 0 18 0 18 0 18 0 18 0 18 0 18	2.00 49.63 3.00 0.00 3.50 2.00 1.00 2.00 1.00 EA	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ \$ 84,024.25 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 563.68 \$ \$ 61,107.20 \$		0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	-	\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Hauling Blocking Crew Lattice Assembly Guy Install Htt. Helicopter Y-Tower Erection Tower Plumb Haul Travellers Gilass Hang Travellers Tie -in S 2.76 Pr Type "B1" Type "B1 + 0" as per dwg. 504 6 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each each each each	0 33 0 4 0 33 0 22 0 44 0 7 0 8 0 13 0 13 0 13 0 13 0 14 0 15 0 15 0 16 0 17 0 17 0 18 0 18 0 18 0 18 0 18 0 18 0 18 0 18	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 1.00 EA	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ \$ 84,024.25 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 563.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$		0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
H	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib.) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Hauling Blocking Crew Lattice Assembly Guy Install HIL Helicopter Y-Tower Erection Tower Plumb Haul Travellers Gilass Hang Travellers Tre-in Str Type "B1" Type "B1 + 0" as per dwg. 5046 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HIL Helicopter	each each each each each each each each	0 33 0 4 0 33 0 22 0 44 0 7 0 8 0 11 0 7 0 8 0 12 0 12 0 13 0 13 0 14 0 33 0 4 0 33 0 4	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 1.00 EA 11 2.00 15.85 2.00 51.61 3.00 0.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ \$ 84,024.25 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 563.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$ \$ - \$ \$		0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
H	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Hauling Blocking Crew Lattice Assembly Guy Install HIL Helicopter Y-Tower Erection Tower Plumb Haul Travellers Gliass Hang Travellers Te-in S 2.76 PT Type "B1" Type "B1 + 0" as per dwg. 50! 6 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HIL Helicopter Y-Tower Erection	each each each each each each each each	0 33 0 4 0 33 0 22 0 44 0 7 0 8 0 11 0 7 0 8 0 12 0 12 0 33 0 22 0 33 0 4 0 33 0 22 0 44	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 1.00 EA 11 2.00 15.85 2.00 51.61 3.00 0.00 4.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ - \$ \$ \$ 84,024.25 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 563.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$ \$ - \$ \$ 5,928.38 \$ \$ 5,928.38 \$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hauling Blocking Crew Lattice Assembly Guy Install HI, Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in \$ 2.76 Per Type "B1" Type "B1 + 0" as per dwg. 50% 6 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HI, Helicopter Y-Tower Erection Tower Plumb	each each each each each each each each	0 33 0 4 0 33 0 2 0 44 0 4 0 7 0 8 0 11 0 7 0 8 0 12 0 11 0 3 0 22 0 1 0 3 0 2 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 4 0 4	2.00 49.63 3.00 0.00 3.50 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 51.61 3.00 0.00 4.00 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$. \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$. \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 663.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$ \$. \$ \$ 5,928.38 \$ \$ 1,826.00 \$ \$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ - \$	-	\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hauling Blocking Crew Lattice Assembly Guy Install Hit. Helicopter Y-Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in **S 2.76 **PTYPE "B1" Type "B1 + 0" as per dwg. 50% 60 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Hit. Helicopter Y-Tower Erection Tower Plumb Haul Travellers Glass	each each each each each each each each	0 33 0 4 0 33 0 2 0 44 0 4 0 7 0 8 0 11 0 7 0 8 0 12 0 13 0 22 0 44 0 33 0 22 0 44 0 33 0 22 0 44 0 4	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 1.00 EA 11 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 663.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$ \$ \$ \$ 5,928.38 \$ \$ 1,826.00 \$ \$ 1,273.27 \$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib.) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hauling Blocking Crew Lattice Assembly Cuy Install HL Helicopter Y-Tower Frection Tower Plumb Hauf Travellers Acides Hang Travellers Tie -In Type "B1" Type "B1" Type "B1 + 0" as per dwg. 50% Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Frection Tower Plumb Hauf Travellers Acides Hang Travellers Hauling Hauffravellers Acides Hauffravellers Acides Hauffravellers Acides Hauffravellers	each each each each each each each each	0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 2 0 4 0 4 0 7 0 8 0 1: 0 0 1: 0 2 0 1 3 0 3 0 4 0 3 0 4 0 3 0 4 0 7 0 4 0 7 0 8	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00 2.00 1.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,352.60 \$ \$ 1,352.60 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 663.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$ \$ \$ 5,928.38 \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 86,290.12	\$
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D54 Assembly and Erection of Suspension Tower Typ Total Tower Weight With Guys and Ext. (Ib) = 3184 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hauling Blocking Crew Lattice Assembly Guy Install Hit. Helicopter Y-Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in **S 2.76 **PTYPE "B1" Type "B1 + 0" as per dwg. 50% 60 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Hit. Helicopter Y-Tower Erection Tower Plumb Haul Travellers Glass	each each each each each each each each	0 33 0 4 0 33 0 2 0 44 0 4 0 7 0 8 0 11 0 7 0 8 0 12 0 13 0 22 0 44 0 33 0 22 0 44 0 33 0 22 0 44 0 4	2.00 49.63 3.00 0.00 3.50 2.00 2.00 1.00 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00 2.00 1.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - Helicopter \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 563.68 \$ \$ 58,762.78 \$ \$ 3,775.95 \$ \$ \$ \$ 5,187.33 \$ \$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 1,352.60 \$ \$ 1,350.24 \$ \$ 6,992.41 \$ \$ 663.68 \$ \$ 61,107.20 \$ \$ 3,775.95 \$ \$ \$ \$ 5,928.38 \$ \$ 1,826.00 \$ \$ 1,273.27 \$		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$		\$ 86,290.12	\$



Ī	NALCOR 350 kV HVdc Line Construction Front	1 (Labrador)				Crew Cost					То	tal Unit Cost
nt			Units		Hours per							inhours and
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials Total Materials
;	S1-D55 Assembly and Erection of Suspension Tower	Type "B1 + 1.5" as per	Total structure count:	0	EA			-		\$ 89,405.62 \$	- \$	89,405.62 \$
	S1-D55 Assembly and Erection of Suspension Tower Typ				<u></u>					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Total Tower Weight With Guys and Ext. (lb) = 33198		127 Section Weight (lb) =	31348								
[Site Preparation	Site Preparation	each	0 2	2.00	\$ 675.12	\$ 1,350.24	-	0	\$ -		
	Haul	Hauling	each	0 1	16.51		\$ 7,279.63	-	0	\$ -		
	Setup Blocks	Blocking Crew	each	0 3	2.00	\$ 281.84	\$ 563.68	-	0			
- 1	Assemble Tower	Lattice Assembly	each	0 4	53.73	\$ 1,183.92	\$ 63,617.17	-				
-	Install Guy Strand	Guy Install	each	0 39	3.00	. ,	\$ 3,775.95		0			
	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72	\$ -	-				
-	Crane Set	Y- Tower Erection	each	0 40	4.00	\$ 1,482.09	\$ 5,928.38	-	0	\$ -		
Ī	Plumb Tower	Tower Plumb	each	0 41	2.00	\$ 913.00			0	\$ -		
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.50	\$ 63 6.64	\$ 1,591.59	-	0			
Ī	Hang Travellers	Hang Travellers	each	0 8	1.00	\$ 1,444.07	\$ 1,444.07	-	0	\$ -		
Ī	Tie -in	Tie -in	each	0 12	3.00	\$ 676.30	\$ 2,028.91	-	0	\$ -		
Ī			each	0		\$ -	\$ -	-	0	\$ -		
_	Total Cost =	s 2.69°	1 per pound				\$ 89,405.62	-		\$ -		
:	S1-D56 Assembly and Erection of Suspension Tower	Type "B1 + 3" as per	Total structure count:	0	EA			-		\$ 90,917.19 \$	- \$	90,917.19 \$
;	S1-D56 Assembly and Erection of Suspension Tower Typ	pe "B1 + 3" as per dwg. 50	5573-4622-43DD-0002		_							
	Total Tower Weight With Guys and Ext. (lb) = 34123		132 Section Weight (lb) =	32157				•				
	Site Preparation	Site Preparation	each	0 2	2.00	\$ 675. 12	\$ 1,350.24	-	0	\$ -		
Ī	Haul	Hauling	each	0 1	16.93	\$ 441.04		-	0	\$ -		
- 7	Setup Blocks	Blocking Crew	each	0 3	2.00				0			
7	Assemble Tower	Lattice Assembly	each	0 4	55.12	\$ 1,183.92	\$ 65,259.16	-	0	\$ -		
Ī	Install Guy Strand	Guy Install	each	0 39	3.00	\$ 1,258.65	\$ 3,775.95	-	0	\$ -		
Ī	Helicopter Set	HL Helicopter	each	0 27	0.00	\$ 21,899.72	\$ -	-	0	\$ -		
- 7	Crane Set	Y- Tower Erection	each	0 40	4.00	\$ 1,482.09	\$ 5,928.38	-	0	\$ -		
Ī	Plumb Tower	Tower Plumb	each	0 41	2.00	\$ 913.00	\$ 1,826.00	-	0	\$ -		
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	6 36.64	\$ 1,273.27	-	0			
Ī	Hang Travellers	Hang Travellers	each	0 8	1.00	\$ 1,444.07	\$ 1,444.07	-	0	\$ -		
Γ	Tie -in	Tie -in	each	0 12	3.00	67 6.30	\$ 2,028.91	-	0	\$ -		
Γ			each	0		\$ -	\$ -	-	0	\$ -		
_	Total Cost =	\$ 2.680	per pound				\$ 90,917.19	-		\$ -		
;	S1-D57 Assembly and Erection of Suspension Tower	Type "B1 + 4.5" as per	Total structure count:	0	EA			-		\$ 93,714.37 \$	- \$	93,714.37 \$
;	S1-D57 Assembly and Erection of Suspension Tower Typ	oe "B1 + 4.5" as per dwg. {										
	Total Tower Weight With Guys and Ext. (lb) = 35476	6 Total Tower Height(ft) =	137 Section Weight (lb) =	33394								
_	Site Preparation	Site Preparation	each	0 2	2.00		\$ 1,350.24		0	\$ -		
[Haul	Hauling	each	0 1	17.58	1 1 1 1 1			0			
[riddillig			0.00	\$ 281.84	500.00	-	0	\$ -		
<u> </u>	Setup Blocks	Blocking Crew	each	0 3	2.00							
3	Setup Blocks Assemble Tower	-	each each	0 4	57.24	1,183.92	\$ 67,769.13		0	\$ -		
1	Setup Blocks Assemble Tower Install Guy Strand	Blocking Crew		0 4 0 39	57.24 S 3.00 S	1,183.92 1,258.65	\$ 67,769.13 \$ 3,775.95	-	0	\$ - \$ -		
1	Setup Blocks Assemble Tower	Blocking Crew Lattice Assembly	each each	0 4	57.24	1,183.92 1,258.65	\$ 67,769.13 \$ 3,775.95 \$ -	- 5 - 5 -	0	\$ - \$ -		
	Setup Blocks Assemble Tower Install Guy Strand	Blocking Crew Lattice Assembly Guy Install	each each	0 4 0 39	57.24 \$ 3.00 \$ 0.00 \$ 4.00 \$ 5	\$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38	- 5 - 5 -	0 0 0	\$ - \$ - \$ - \$ -		
3	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each	0 4 0 39 0 27	57.24 \$ 3.00 \$ 0.00 \$ 5	1,183.92 1,258.65 21,899.72 1,482.09 913.00	\$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00		0 0	\$ - \$ - \$ - \$ -		
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y-Tower Erection	each each each each each each	0 4 0 39 0 27 0 40	57.24 \$ 3.00 \$ 0.00 \$ 4.00 \$ 5	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64	\$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27		0 0 0	\$ - \$ - \$ - \$ - \$ -		
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y-Tower Erection Tower Plumb	each each each each each each each each	0 4 0 39 0 27 0 40 0 41	57.24 \$ 3.00 \$ 4 0.00 \$ 4.00 \$ 2.00 \$ 5	1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64	\$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07		0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -		
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travelters&Glass	each each each each each each each each	0 4 0 39 0 27 0 40 0 41 0 7	57.24 \$ 3.00 \$ 0.00 \$ 4.00 \$ 2.00 \$ 2.00 \$ 3	1,183.92 1,258.65 21,899.72 1,482.09 1,482.09 636.64 1,444.07	\$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27		0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-In	each each each each each each each each	0 4 0 39 0 27 0 40 0 41 0 7	57.24 \$ 3.00 \$ 0.00 \$ 4.00 \$ 2.00 \$ 2.00 \$ 1.00 \$ 5	1,183.92 1,258.65 21,899.72 1,482.09 1,482.09 1,482.09 1,444.07 1,444.07 1,444.07	\$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07		0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		



1	NALCOR 350 kV HVdc Line Construction F	ront 1 (Labrador)				Crew Cost						Total Unit Cost	
nt			Units		Hours per							Manhours and	
[Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
9	S1-D58 Assembly and Erection of Suspension To	ower Type "B1 + 6" as per	Total structure count:	0	EA		\$	-		\$ 94,831.25 \$	-	\$ 94,831.25	\$
	S1-D58 Assembly and Erection of Suspension Towe						•			• • • • • • • • • • • • • • • • • • • •		Ţ 0.,00 H.Z.	•
	Total Tower Weight With Guys and Ext. (lb) =	36086 Total Tower Height(ft) =	142 Section Weight (It	o) = 33887									
5	Site Preparation	Site Preparation	each	0 2	2.00	\$ 675.12	\$ 1,350.24 \$	-	0	\$ -			
F	Haul	Hauling	each	0 1	17.84	\$ 441.04	\$ 7,869.41 \$	-	0	\$ -			
5	Setup Blocks	Blocking Crew	each	0 3	2.00	\$ 281.84		-	0				
A	Assemble Tower	Lattice Assembly	each	0 4	58.09	\$ 1,183.92	\$ 68,771.33 \$		0				
1	nstall Guy Strand	Guy Install	each	0 39	3.00	\$ 1,258.65	\$ 3,775.95 \$		0				
	Helicopter Set	HL Helicopter	each	0 27	0.00	,	7 7		0				
	Crane Set	Y- Tower Erection	each	0 40	4.00	\$ 1,482.09	\$ 5,928.38 \$		0				
	Plumb Tower	Tower Plumb	each	0 41	2.00	· · · · · · · · · · · · · · · · · · ·			0				
	naul Insulators and Travellers	Haul Travellers&Glass	each	0 7	2.00	· · · · · · · · · · · · · · · · · · ·			0				
	Hang Travellers	Hang Travellers	each	0 8	1.00	\$ 1,444.07			0				
<u> </u>	Гie -in	Tie -in	each	0 12	3.00				0				
L			each	0		-	\$ - \$		0	4			
	Total C	ost = \$ 2.658	B per pound				\$ 94,831.25 \$	-		\$ -			
		T "D4 T5"		_				400 505 40		A 00 704 00 A		A 00 704 00	•
	S1-D59 Assembly and Erection of Suspension To			5	EA		*	483,505.10	r e	\$ 96,701.02 \$	-	\$ 96,701.02	\$
3	61-D59 Assembly and Erection of Suspension Towe			24744									
1		Total Tower Height(ft) =	147 Section Weight (It	·	2.00	¢ 675.40	¢ 4.250.04 k	6.754.00		¢ 4.250.04			
	Site Preparation Haul	Site Preparation	each	5 2 5 1	2.00 18.28	\$ 675. 12	1 1 2 2						
_	าลนเ Setup Blocks	Hauling	each	5 3		Ψ 111.01							
	Assemble Tower	Blocking Crew	each each	5 4	2.00 59.50		\$ 563.68 \$ \$ 70,449.12 \$						
_	nstall Guy Strand	Lattice Assembly	each	5 39	3.00								
	Helicopter Set	Guy Install	each	5 27	0.00	\$ 21,899.72			5				
	Crane Set	HL Helicopter Y- Tower Erection	each	5 40	4.00	\$ 1,482.09							
	Plumb Tower	Y- Tower Erection Tower Plumb	each	5 41	2.00	\$ 913.00		,					
_	naul Insulators and Travellers	Haul Travellers&Glass	each	5 7	2.00	\$ 6 36.64	\$ 1,273.27 \$						
_	Hang Travellers	Hang Travellers	each	5 8	1.00	\$ 1,444.07	\$ 1,444.07 \$						
_	Fie -in	Tie-in	each	5 12	3.00	\$ 676.30		,					
H			each	5	0.00	\$ -	\$ - \$		5				
ļ	Total C	ost = \$ 2.649	per pound				\$ 96,701.02 \$			\$ 96,701.02			
		,	1					,	_	, , , , , ,			
5	S1-D60 Assembly and Erection of Suspension To	ower Type "B1 + 9" as per	Total structure count:	6	EA		\$	590,347.76		\$ 98,391.29 \$	-	\$ 98,391.29	\$
5	S1-D60 Assembly and Erection of Suspension Towe	er Type "B1 + 9" as per dwg. 50	5573-4622-43DD-0002										
		Total Tower Height(ft) =	152 Section Weight (Ib	35462									
3	Site Preparation	Site Preparation	each	9 6 2	2.00	\$ 675.12	\$ 1,350.24 \$						
_	Haul	Hauling	each	6 1	18.67	7							
	Setup Blocks	Blocking Crew	each	6 3	2.00	T							
	Assemble Tower	Lattice Assembly	each	6 4	60.79	\$ 1,183.92	\$ 71,965.83 \$						
	nstall Guy Strand	Guy Install	each	6 39	3.00	Ψ .,=00.00	\$ 3,775.95 \$,			
_	Helicopter Set	HL Helicopter	each	6 27	0.00	\$ 21,899.72			6				
	Crane Set	Y- Tower Erection	each	6 40	4.00	,	\$ 5,928.38 \$						
_	Plumb Tower	Tower Plumb	each	6 41	2.00		\$ 1,826.00 \$						
F			each	6 7	2.00	7				·			
F	naul Insulators and Travellers	Haul Travellers&Glass											
F 	Hang Travellers	Hang Travellers	each	6 8	1.00	T .,	, , ,			,			
<u>F</u>			each	6 12	3.00	\$ 676.30	\$ 2,028.91 \$	12,173.43	6	\$ 2,028.91			
F 	Hang Travellers	Hang Travellers Tie -In				\$ 676.30 \$ -		12,173.43	6	\$ 2,028.91			



	IALCOR 350 kV HVdc Line Construction F	ront 1 (Labrador)					1	Crew Cost						Total Unit Cost	
nt	A			Units		Hours per				0	1.1		Madaniala	Manhours and	T-4-1 M-4:
ᆫ	Description			Total	Crew No.	unit	Hou	urly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	1-D61 Assembly and Erection of Suspension To	ower Type "P1 + 10 5" as no	r Total struc	ture count:	11	EA				\$ 1,114,773.46	¢	101,343.04	e _	\$ 101,343.04	e
	11-D61 Assembly and Erection of Suspension Towe				- "	LA				Ψ 1,114,773.40	Φ	101,343.04	-	φ 101,343.04	Φ
		39313 Total Tower Height(ft) =	-	Section Weight (lb) =	36767										
S	ite Preparation	Site Preparation	each	11		2.00	\$	675.12	\$ 1,350.24	\$ 14,852.69	11 \$	1,350.24	1		
_	laul	Hauling	each	11		19.36	\$	441.04		\$ 93,918.40		8,538.04	1		
	Setup Blocks	Blocking Crew	each	11		2.00	\$	281.84		\$ 6,200.53		563.68			
	ssemble Tower	Lattice Assembly	each	11		63.02	\$	1,183.92		\$ 820,759.50		74,614.50			
lı	nstall Guy Strand	Guy Install	each	11		3.00	\$	1,258.65		\$ 41,535.44		3,775.95	1		
F	lelicopter Set	HL Helicopter	each	11	27	0.00	\$	21,899.72	\$ -	\$ -	11 \$	-	1		
C	Crane Set	Y- Tower Erection	each	11	40	4.00	\$	1,482.09	\$ 5,928.38	\$ 65,212.14	11 \$	5,928.38			
F	lumb Tower	Tower Plumb	each	11	41	2.00	\$	913.00	\$ 1,826.00	\$ 20,086.03	11 \$	1,826.00			
h	aul Insulators and Travellers	Haul Travellers&Glass	each	11		2.00	\$	6 36.64				1,273.27			
F	lang Travellers	Hang Travellers	each	11		1.00	\$	1,444.07				1,444.07			
T	ïe -in	Tie -in	each	11		3.00	\$	676.30				2,028.91]		
			each	11			\$	-		<u> </u>	11 \$	-	J		
	Total C	Cost = \$ 2.6	27 per pound						\$ 101,343.04	\$ 1,114,773.46	\$	101,343.04			
	1-D62 Assembly and Erection of Suspension To			ture count:	9	EA				\$ 930,396.19	\$	103,377.35	-	\$ 103,377.35	\$
S	1-D62 Assembly and Erection of Suspension Towe	,			07000										
<u> </u>		40328 Total Tower Height(ft) =	161	Section Weight (lb) =	37666	0.00		075.40	1 252 24	10 150 00		105001	1		
_	ite Preparation	Site Preparation	each	9		2.00	\$	675.12	1 1 2 2				-		
_	laul	Hauling	each	9		19.83	\$	441.04		\$ 78,722.26			-		
_	setup Blocks ssemble Tower	Blocking Crew	each	9	<u>3</u>	2.00	\$	281.84 1,183.92		\$ 5,073.16 \$ 687,959.38		76,439.93			
	nstall Guy Strand	Lattice Assembly	each each	9	39	3.00	Φ	1,183.92 1,258.65		\$ 33,983.54		3,775.95	-		
	lelicopter Set	Guy Install HL Helicopter	each	9	27	0.00	ψ ¢	21,899.72		\$ 33,963.54 \$ -	9 \$	3,773.93			
	Crane Set	Y- Tower Erection	each	9	40	4.00	\$	1,482.09		\$ 53,355.39		5,928.38	-		
_	Plumb Tower	Tower Plumb	each	9	41	2.00	\$	913.00		\$ 16,434.03		1,826.00	1		
_	aul Insulators and Travellers	Haul Travellers&Glass	each	9	7	2.00	\$	6 36.64		\$ 11,459.47		1,273.27			
	lang Travellers	Hang Travellers	each	9	8	1.00	\$	1,444.07		\$ 12,996.60		1,444.07			
_	ïe -in	Tie-in	each	9	12	3.00	\$	676.30		\$ 18,260.15		2,028.91			
			each	9			\$		\$ -	\$ -	9 \$	-			
	Total C	Cost = \$ 2.6	19 per pound						\$ 103,377.35	\$ 930,396.19	\$	103,377.35			
									_	,	_	,	•		
	1-D63 Assembly and Erection of Suspension To				11	EA				\$ 1,174,131.13	\$	106,739.19	\$ -	\$ 106,739.19	\$
S	1-D63 Assembly and Erection of Suspension Towe	er Type "B1 + 13.5" as per dw	g. 505573-4622	2-43DD-0002											
		Total Tower Height(ft) =	166		38497								7		
_	ite Preparation	Site Preparation	each	11	2	2.00	\$	675.12				1,350.24			
_	laul	Hauling	each	11	1	20.27	\$	441.04		\$ 98,339.22		8,939.93			
	etup Blocks	Blocking Crew	each	11		2.00	\$	281.84		\$ 6,200.53		563.68			
_	ssemble Tower	Lattice Assembly	each	11	4	65.99	\$	1,183.92		\$ 859,393.32		78,126.67	-		
	nstall Guy Strand	Guy Install	each	11	39	3.00	\$	1,258.65		\$ 41,535.44		3,775.95	-		
	lelicopter Set	HL Helicopter	each	11		0.00	\$	21,899.72		\$ - ¢ 01.515.10	11 \$	7 440 47	-		
_	Crane Set	Y- Tower Erection	each	11	40	5.00	Φ	1,482.09	. ,			7,410.47	-		
_	lumb Tower aul Insulators and Travellers	Tower Plumb	each	11	41 7	2.00	Φ	913.00		\$ 20,086.03 \$ 14,006.03		1,826.00	-		
- 1		Haul Travellers&Glass	each each	11		2.00	Φ	636.64 1,444.07		\$ 14,006.02 \$ 15,884.74		1,273.27 1,444.07	-		
IL	lang Travellers ïe -in	Hang Travellers	each	11	12	3.00	\$	676.30	·	\$ 15,884.74 \$ 22,317.96		2,028.91	-		
T	IC -III	Tie -in	each	11		3.00	\$		\$ 2,020.91	\$ 22,317.90 \$ -	11 \$	2,020.91	1		
Ţ							Ψ		Ψ -	Ψ -	μιιψ	<u>-</u>	1		
T	Total C	Cost = \$ 2.6	49 per pound			•			\$ 106,739.19	\$ 1,174,131.13	\$	106,739.19			



Ī	NALCOR 350 kV HVdc Line Construction Front 1	Labrador)				Crew Cost					Total Unit Cost	
nt			Units		Hours per						Manhours and	
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials Materials	Total Materials
;	S1-D64 Assembly and Erection of Suspension Tower Ty	pe "B1 + 15" as per	Total structure count:	0	EA		•	-		\$ 108,623.92 \$	- \$ 108,623.92	\$
;	S1-D64 Assembly and Erection of Suspension Tower Type '						7					
_	Total Tower Weight With Guys and Ext. (lb) = 42225	Total Tower Height(ft) =	171 Section Weight (lb) =									
	Site Preparation	Site Preparation	each	0 2	2.00		\$ 1,350.24		0	\$ -		
_	Haul	Hauling	each	0 1	20.71		\$ 9,133.45		0			
	Setup Blocks	Blocking Crew	each	0 3	2.00			-	0			
_	Assemble Tower	Lattice Assembly	each	0 4 0 39	67.42 S 3.00 S	1,183.92 1,258.65	\$ 79,817.87 \$ \$ 3,775.95 \$		0			
_	Install Guy Strand Helicopter Set	Guy Install	each each	0 27	3.00 S				0			
<u> </u>	Crane Set	HL Helicopter	each	0 40	5.00	1,482.09	·		0			
-	Plumb Tower	Y- Tower Erection	each	0 41	2.00				0			
_	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each	0 7	2.00				0			
-	Hang Travellers	Haul Travellers&Glass Hang Travellers	each	0 8	1.00	1,444.07			0			
_	Tie -in	Hang Travellers	each	0 12	3.00				0			
-	110 -111	He -In	each	0 12	3.00		\$ - 9		0			
L	Total Cost =	\$ 2.641	l per pound	O		_	\$ 108,623.92		U U	\$ -		
	Total Goot	Ψ 2.041	i per pourid				φ 100,020.02 _ φ		-	Ψ		
;	S1-D65 Assembly and Erection of Suspension Tower Ty	ne "R1 ± 16 5" as ner	Total structure count:	1	EA			110,299.24		\$ 110,299.24 \$	- \$ 110.299.24	S
	S1-D65 Assembly and Erection of Suspension Tower Type '			•				110,233.24		Ψ 110,233.24 Ψ	Ψ 110,200.24	•
	Total Tower Weight With Guys and Ext. (lb) = 43081	Total Tower Height(ft) =	176 Section Weight (lb) =	40071								
[Site Preparation	Site Preparation	each	1 2	2.00	675.12	\$ 1,350.24	1,350.24	1	\$ 1,350.24		
-	Haul	Hauling	each	1 1	21.10							
	Setup Blocks	Blocking Crew	each	1 3	2.00		\$ 563.68		1			
	Assemble Tower	Lattice Assembly	each	1 4	68.69		\$ 81,321.17		1			
_	Install Guy Strand	Guy Install	each	1 39	3.00				1			
	Helicopter Set	HL Helicopter	each	1 27	0.00	21,899.72			1			
	Crane Set	Y- Tower Erection	each	1 40	5.00	1,482.09			1			
_	Plumb Tower	Tower Plumb	each	1 41	2.00	913.00						
-	haul Insulators and Travellers	Haul Travellers&Glass	each	1 7	2.00	6 36.64	\$ 1,273.27		1			
	Hang Travellers	Hang Travellers	each	1 8	1.00		\$ 1,444.07 \$		1			
_	Tie -in	Tie -in	each	1 12	3.00	676.30			1			
-			each	1		-	\$ - 9	- · · · · · -	1			
-	Total Cost =	\$ 2.634	per pound				\$ 110,299.24	110,299.24		\$ 110,299.24		
			1				·		-			
;	S1-D66 Assembly and Erection of Suspension Tower Ty	oe "B1 + 18" as per	Total structure count:	1	EA		9	111,979.54		\$ 111,979.54 \$	- \$ 111,979.54	\$
;	S1-D66 Assembly and Erection of Suspension Tower Type '	B1 + 18" as per dwg. 50	05573-4622-43DD-0002									
_	Total Tower Weight With Guys and Ext. (lb) = 43940	Total Tower Height(ft) =	181 Section Weight (lb) =	40814								
	Site Preparation	Site Preparation	each	1 2	2.00		\$ 1,350.24		1			
	Haul	Hauling	each	1 1	21.49							
_	Setup Blocks	Blocking Crew	each	1 3	2.00				1			
- 1	Assemble Tower	Lattice Assembly	each	1 4	69.96	1,183.92	\$ 82,828.94		1			
_	Install Guy Strand	Guy Install	each	1 39	3.00	1,200.00	\$ 3,775.95		1			
Ī	Helicopter Set	HL Helicopter	each	1 27	0.00	21,899.72			1			
<u> </u>	•	TIE TIGIOOPIG		40	E 00	1,482.09	\$ 7,410.47	7,410.47	1	\$ 7,410.47		
<u> </u>	Crane Set	Y- Tower Erection	each	1 40	5.00	,						
 	Crane Set Plumb Tower		each	1 41	2.00	913.00	\$ 1,826.00 \$	1,826.00				
 - -	Crane Set Plumb Tower haul Insulators and Travellers	Y- Tower Erection	each each	1 41 1 7	2.00	913.00 636.64	\$ 1,826.00 \$ \$ 1,273.27 \$	1,826.00 1,273.27	1	\$ 1,273.27		
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Y- Tower Erection Tower Plumb	each each each	1 41 1 7 1 8	2.00 \$ 2.00 \$ 1.00 \$	\$ 913.00 \$ 636.64 \$ 1,444.07	\$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$	1,826.00 1,273.27 1,444.07	1	\$ 1,273.27 \$ 1,444.07		
	Crane Set Plumb Tower haul Insulators and Travellers	Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each	1 41 1 7	2.00 \$ 2.00 \$ 1.00 \$ 3.00	\$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 2,028.91 \$	1,826.00 1,273.27 1,444.07 2,028.91	1 1 1	\$ 1,273.27 \$ 1,444.07 \$ 2,028.91		
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each each each	1 41 1 7 1 8	2.00 \$ 2.00 \$ 1.00 \$	913.00 6 636.64 6 1,444.07 6 676.30	\$ 1,826.00 \$ \$ 1,273.27 \$ \$ 1,444.07 \$	1,826.00 1,273.27 1,444.07 2,028.91	1 1 1 1	\$ 1,273.27 \$ 1,444.07 \$ 2,028.91		



erials Manhours and Materials Total Materials - \$ 115,285.30 \$
- \$ 115,285.30 \$
,,=
- \$ 118,447.70 \$
- \$ 110,447.70 \$
- \$ 120,531.87 \$
- \$ 120,531.87 \$



nt		Front 1 (Labrador)				Crew Cost						Total Unit Cost	
,	Description		Units Total	Craw Na	Hours per	Haumhy Data	Unit Coot	Subtotal	Units	Limit Coot	Materials	Manhours and Materials	Total Materials
Ľ	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	UTIILS	Unit Cost	Materials	Materials	Total Materials
9	S1-D70 Assembly and Erection of Suspension T	ower Type "B1 + 24" as per	Total structure count:	0	EA		\$	-		\$ 124,971.93 \$	-	\$ 124,971.93	\$
	S1-D70 Assembly and Erection of Suspension Tow				_					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,,,	•
_	Total Tower Weight With Guys and Ext. (lb) =	48183 Total Tower Height(ft) =	201 Section Weight (lb) =	44593									
,	Site Preparation	Site Preparation	each 0	2	2.00	675.12			0				
<u> </u>	Haul	Hauling	each C	1	23.48	_			0				
_	Setup Blocks	Blocking Crew	each C	3	2.00			-	0				
_	Assemble Tower	Lattice Assembly	each C	4	76.44	1,183.92	\$ 90,497.54 \$	-	0				
	nstall Guy Strand	Guy Install	each C	39	3.00	,	\$ 3,775.95 \$		0				
_	Helicopter Set	HL Helicopter	each C	27	0.00	,	\$ - \$		0				
_	Crane Set	Y- Tower Erection	each C	40	8.00	1,482.09	\$ 11,856.75 \$		0				
_	Plumb Tower	Tower Plumb	each C	41	2.00				0	·			
	naul Insulators and Travellers	Haul Travellers&Glass	each C	7	2.00				0	·			
_	Hang Travellers	Hang Travellers	each C	8	1.00	1,444.07	\$ 1,444.07 \$		0				
ļ.	Гie -in	Tie -in	each C	12	3.00				0				
L	T		each C)		-	\$ - \$		0				
	Total (Cost = \$ 2.696	per pound				\$ 124,971.93 \$	-	_	\$ -			
		T "D4 05 5"								A 400.054.00 A		A 400 054 00	•
	61-D71 Assembly and Erection of Suspension T			0	EA		\$	•	4	\$ 126,851.68 \$	-	\$ 126,851.68	\$
,	S1-D71 Assembly and Erection of Suspension Tow			45404									
Е		49130 Total Tower Height(ft) =	206 Section Weight (lb) =	45424	0.00	075.40	1 250 04 0			Φ.			
_	Site Preparation	Site Preparation	Cuon		2.00				0				
_	Haul	Hauling	each C	1	23.92	441.04			0				
	Setup Blocks Assemble Tower	Blocking Crew	each 0	3	2.00 S				0				
_		Lattice Assembly	each C	39	3.00	1,183.92 1,258.65			0				
	nstall Guy Strand Helicopter Set	Guy Install	each C	27	0.00	5 1,258.05 21,899.72	\$ 3,775.95 \$		0				
	Crane Set	HL Helicopter	each 0	40	8.00	3 1,482.09	Ψ		0				
	Plumb Tower	Y- Tower Erection	each C		2.00	913.00			0				
_	naul Insulators and Travellers	Tower Plumb	each	7	2.00	63 6.64			0				
_	Hang Travellers	Haul Travellers&Glass Hang Travellers	each C	8	1.00	1,444.07			0				
_	Fie -in	Hang Travellers Tie -in	each	12	3.00	676.30			0				
-	116 -111	lie-in	each	12	3.00	070.30	\$ 2,020.91 \$		0				
L	Total (Cost = \$ 2.688	per pound				\$ 126,851.68 \$			\$ -			
	Total	2.000	per pound				Ψ 120,001.00 Ψ	-	_	Ψ -			
9	S1-D72 Assembly and Erection of Suspension T	ower Tyne "R1 ± 27" as ner	Total structure count:	1	EA		\$	128,531.98		\$ 128,531.98 \$	_	\$ 128,531.98	\$
	S1-D72 Assembly and Erection of Suspension Tow						•	120,001100		120,001.00		120,001100	*
		49989 Total Tower Height(ft) =	211 Section Weight (lb) =	46167									
!	Site Preparation	Site Preparation	each 1	2	2.00	675.12	\$ 1,350.24 \$	1,350.24	. 1	\$ 1,350.24			
	Haul	Hauling	each 1	1	24.31		\$ 10,721.05 \$						
_	Setup Blocks	Blocking Crew	each 1	3	2.00								
_	Assemble Tower	Lattice Assembly	each 1	4	79.14	1,183.92	\$ 93,692.05 \$						
_	nstall Guy Strand	Guy Install	each 1	39	3.00		\$ 3,775.95 \$						
	Helicopter Set	HL Helicopter	each 1	27	0.00	21,899.72			1				
	Crane Set	Y- Tower Erection	each 1	40	8.00		\$ 11,856.75 \$	11,856.75	1	\$ 11,856.75			
_	Plumb Tower	Tower Plumb	each 1	41	2.00		\$ 1,826.00 \$						
-	naul Insulators and Travellers	Haul Travellers&Glass	each 1	7	2.00								
_	Hang Travellers	Hang Travellers	each 1	8	1.00								
-	Fie -in	Tie -in	each 1	12	3.00		. ,			· · · · · · · · · · · · · · · · · · ·			
-			each 1				\$ - \$		1				
							\$ 128,531.98 \$	128,531.98		\$ 128,531.98			
L	Total 0	Cost = \$ 2.681	per pound				D 120,001.90 D	120,551.90		φ 120,001.90			



	NALCOR 350 kV HVdc Line Construction Front 1 (L	abrador)						Crew Cost						Total Unit Cost	
Payment				Units		Hours per								Manhours and	
Item	Description			Total	Crew No.	unit	Н	lourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V-H20	Assembly and Erection of Medium Angle Tower														
V::D73	S1-D73 Assembly and Erection of Medium Angle Tower Ty	pe "B2" Basic Body	/ Total struct	ture count:	28	EA				\$ 2,986,162.31	\$	106,648.65	-	\$ 106,648.65	\$ -
	S1-D73 Assembly and Erection of Medium Angle Tower Type														
	Total Tower Weight With Guys and Ext. (lb) = 38332	Total Tower Height(ft) =		Section Weight (lb) =	38332		1.						1		
	Site Preparation	Site Preparation	each	28	2	2.00	\$	675.12 \$,			1,350.24			
	Haul	Hauling	each	28	1	24.22	\$	441.04 \$	-,			10,681.84			
	Setup Blocks	Blocking Crew	each	28	3	2.00	\$	281.84 \$		\$ 15,783.17		563.68			
	Assemble	Lattice Assembly	each	28	4	56.37	\$	1,183.92 \$		\$ 1,868,672.06		66,738.29			
	Erect Tower	Tower Topping	each	28	6 7	11.11	\$	1,656.68	,	\$ 515,394.40		18,406.94 2,546.55			
	haul Insulators and Travellers	Haul Travellers&Glass	each	28 28	<i>7</i> 8	4.00 3.00	\$	636.64 \$				4,332.20			
	Hang Travellers Tie -in	Hang Travellers	each	28	8 12	3.00	\$	1,444.07 \$ 676.30 \$				4,332.20 2.028.91			
	116 -111	Tie -in	each each	28	12	3.00	Φ	- \$, , , ,	\$ 56,809.35	28 \$	2,028.91			
			each	28			\$	- \$		\$ -	28 \$	<u> </u>			
			each	28			φ	- \$		\$ -	28 \$	<u> </u>			
	Total Cost =	\$ 2.72	29 per pound				Ψ	- \$		Ψ		106,648.65			
	Total Gost –	Ψ 2.12	.5 per pourid	I				Ψ	100,040.00	2,300,102.31	Ψ	100,040.03			
V::D74	S1-D74 Assembly and Erection of +4.5 m body extension t	for Medium Angle	Total struc	ture count:	3	EA				\$ 82,555.57	\$	27,518.52	\$ -	\$ 27,518.52	\$ -
	S1-D74 Assembly and Erection of +4.5 m body extension for I									02,000.0	_		T	¥ 21,010.02	•
	Total Tower Weight With Guys and Ext. (lb) = 11008	Total Tower Height(ft) =		Section Weight (lb) =	11008					*					
	Site Preparation	Site Preparation	each	3	2		\$	675.12		\$ -	3 \$	_			
	Haul	Hauling	each	3	1	6.96	\$	441.04 \$	3,067.49	\$ 9,202.46		3,067.49			
		3	each	3			\$	- \$		\$ -	3 \$	-			
	Assemble Bottom	Lattice Assembly	each	3	4	16.19	\$	1,183.92	19,165.14	\$ 57,495.42	2 3 \$	19,165.14			
			each	3			\$	- \$		\$ -	3 \$	-			
			each	3			\$	- \$	- /	\$ -	3 \$	-			
	Set Extension	Tower Topping	each	3	6	3.19	\$	1,656. 68 \$	5,285.90	\$ 15,857.69	3 \$	5,285.90			
			each	3			\$	- \$	-	\$ -	3 \$	=			
			each	3			\$	- \$	-	\$ -	3 \$	-			
			each	3			\$	- \$		\$ -	3 \$	-			
			each	3			\$	- \$		\$ -	3 \$	-			
	Total Cost =	\$ 2.50	00 per pound		_			\$	27,518.52	\$ 82,555.57	\$	27,518.52			
V::D75	S1-D75 Assembly and Erection of +10.5 m body extension	tor Medium Angle	Total struct		0	EA				\$ -	\$	46,562.11	-	\$ 46,562.11	5
	S1-D75 Assembly and Erection of +10.5 m body extension for														
	Total Tower Weight With Guys and Ext. (lb) = 18294	Total Tower Height(ft) =		Section Weight (lb) =	18294		<u></u>	675.40	· I	¢	0 4				
	Site Preparation Haul	Site Preparation	each each	0	2	11.56	ф Ф	675.12 \$ 441.04 \$	5.097.94	\$ - \$ -	0 \$	-			
	ı iaui	Hauling	each	0	_	11.30	\$	441.04	-,	\$ - \$ -	0 \$	-			
	Assemble Bottom	Lattice Assembly	each	0	4	26.90	\$	1,183.92		\$ -	0 \$	-			
	Assemble Dollotti	Lattice Assembly	each	0	4	20.90	\$	1,103.92	- ,	\$ - \$ -	0 \$	<u>-</u>			
			each	0			S	- \$		\$ -	0 \$	-			
	Set Extension	Tower Topping	each	0	6	5.80	\$	1,656.68		\$ -	0 \$				
		Tower Topping	each	0		0.00	\$	- \$		\$ -	0 \$	_			
			each	0			\$	- \$		\$ -	0 \$				
			each	0			\$	- \$		\$ -	0 \$	_			
			each	0			\$	- \$		\$ -	0 \$				
	Total Cost =	\$ 2.54	5 per pound			-		\$		\$ -	\$	-			
		,		'					,				•		



	NALCOR 350 kV HVdc Line Construction Front 1 ((Labrador)						Crew Cost						Total Unit Cost	
ent				Units		Hours per	-							Manhours and	
	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	04.070.4		T-1-1-1-1	4	0	- 4				A4 570 (4 440 75	•	A 440.75	•
	S1-D76 Assembly and Erection of +0 m leg extension for S1-D76 Assembly and Erection of +0 m leg extension for Me				8 42DD 0059, par l	EA				\$ 11,573.9	8	1,446.75	-	\$ 1,446.75	\$
	Total Tower Weight With Guys and Ext. (lb) = 2315	Fotal Tower Height(ft) =	•	Section Weight (lb) =	-43DD-0056, per ii 579	eg									
	Site Preparation	Site Preparation	each	Section Weight (ib) =			¢	675.12 \$	<u> </u>	\$ -	8 \$	-	7		
	Haul	Site Preparation Hauling	each	8		0.37	\$	441.04 \$		Ψ					
	Setup Blocks	Blocking Crew	each	8		0.01	\$	281.84 \$		\$ 1,230.					
	Assemble Bottom	Lattice Assembly	each	8		0.85	\$	1,183.92 \$		\$ 8,060.6			1		
	Panel Bottom	Lattice Erection	each	8		0.00	\$	1,519.02 \$,	\$ -					
	Assemble Tops	Lattice Assembly	each	8			\$	1,183.92 \$	-	\$ -					
	Set Leg	Tower Topping	each	8		0.17	\$	1,656.68 \$	277.90	\$ 2,223.1					
		· · · · · · · · · · · · · · · · · · ·	each	8			\$	- \$		\$ -			1		
			each	8			\$	- \$		\$ -	8 \$	-	1		
			each	8			\$	- \$	-	\$	8 \$	-			
			each	8			\$	- \$		\$ -	8 \$	-			
•	Total Cost =	\$ 2.50	00 per pound		•	•		\$	1,446.75	\$ 11,573.9	18	1,446.75			
													_		
	S1-D77 Assembly and Erection of +1.5 m leg extension fe			ture count:	20	EA				\$ 40,508.9	94	2,025.45	-	\$ 2,025.45	\$
	S1-D77 Assembly and Erection of +1.5 m leg extension for N	· ·	••	•		r leg									
i	Total Tower Weight With Guys and Ext. (lb) = 3241	Total Tower Height(ft) =	136	Section Weight (lb) =	810								-		
	Site Preparation	Site Preparation	each	20			\$	675.12 \$							
	Haul	Hauling	each	20		0.51	\$	441.04 \$							
	Setup Blocks	Blocking Crew	each	20			\$	281.84 \$		\$ -	20 \$				
	Assemble Bottom	Lattice Assembly	each	20		1.19	\$	1,183.92 \$		\$ 28,212.2					
	Panel Bottom	Lattice Erection	each	20			\$	1,519.02 \$		\$ -					
	Assemble Tops	Lattice Assembly	each	20		0.00	\$	1,183.92 \$		\$ -					
	Set Leg	Tower Topping	each each	20		0.23	\$	1,656.68 \$		\$ 7,781.1		389.00			
	<u> </u>		each	20			\$	- \$ - \$		\$ -					
			each	20			\$	- 3		\$ - \$ -			1		
			each	20			Φ C	- \$		\$ -			1		
	Total Cost =	\$ 2.50	00 per pound				Ψ	\$	2,025.45	•		2,025.45			
	Total Gost	Ψ 2.00	oo per pearla	1				ų daras ir salas ir s	2,020.40	Ψ 40,000.0	4	2,020.40			
3	S1-D78 Assembly and Erection of +3 m leg extension for	r Medium Angle Towe	er Total struc	ture count:	16	EA				\$ 56,881.3	3 9	3,555.08	\$ -	\$ 3,555.08	\$
	S1-D78 Assembly and Erection of +3 m leg extension for Me	edium Angle Tower Typ	pe "B2" as per o	dwg. 505573-4622						, ,				*,	,
	Total Tower Weight With Guys and Ext. (lb) = 5796	Total Tower Height(ft) =		Section Weight (lb) =	1449										
	Site Preparation	Site Preparation	each	16	2		\$	675.12 \$	-	\$ -					
	Haul	Hauling	each	16	1	0.76	\$	441.04 \$	336.49	\$ 5,383.8	2 16 \$	336.49			
	Setup Blocks	Blocking Crew	each	16	3		\$	281.84 \$		\$	16 \$				
				16	4	2.13	\$	1,183.92 \$	2,522.79	\$ 40,364.6					
	Assemble Bottom	Lattice Assembly	each				ф	1.519.02 \$	-	\$	16 \$	-			
	Panel Bottom	Lattice Assembly Lattice Erection	each	16			Ф)		т					
				16 16	4		\$	1,183.92 \$	-	\$ -	16 \$	-			
	Panel Bottom	Lattice Erection	each	16 16 16	6	0.42	\$	1,183.92 \$ 1,656.68 \$	695.81	\$ - \$ 11,132.8	16 \$ 8 16 \$	695.81			
	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each each each	16 16 16 16	6	0.42	\$ \$	1,183.92 \$ 1,656.68 \$ - \$	695.81 -		16 \$ 8 16 \$ 16 \$	695.81 695.81			
	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each each each	16 16 16 16 16	6	0.42	\$ \$ \$ \$	1,183.92 \$ 1,656.68 \$ - \$ - \$	695.81 695.81 6 -	\$ 11,132.8 \$ -	16 \$ 88 16 \$ 16 \$ 16 \$	695.81 695.81			
	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each each each each each	16 16 16 16 16 16	6	0.42	\$ \$ \$ \$ \$	1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$	695.81 695.81 6 -	\$ 11,132.8 \$ - \$ - \$ -	16 \$ 16 \$ 16 \$ 16 \$ 16 \$	6 - 695.81 6 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6			
	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly Tower Topping	each each each each	16 16 16 16 16 16 16 16	6	0.42	\$ \$ \$ \$ \$	1,183.92 \$ 1,656.68 \$ - \$ - \$	695.81 - - - -	\$ 11,132.8 \$ - \$ - \$ -	16 \$ 8 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	6 - 695.81 6 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6			



NALCOR 350 kV HVdc Line Construction Front 1 (Labrador) Units Units Units Hours per Hours per Unit Unit Cost Subtotal Units Unit Cost Unit Cost	Materials Total Materials - \$ 4,224.50 \$
St-D79 St-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle Total structure count: 24	
S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Total Tower Weight (With Guys and Ext. (ib.) = 6759	- \$ 4,224.50 \$
S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Total Tower Weight (With Guys and Ext. (b.) = 6759	- \$ 4,224.5U \$
Total Tower Weight With Guys and Ext. (Ib.) = 6759 Total Tower Height(It) = 146 Section Weight (Ib.) = 1690	
Site Preparation Site Preparation Each 24 2 \$ 675.12 \$ - \$ - 24 \$ - \$ \$ \$ \$ \$ \$ \$ \$	
Haul	
Setup Blocks	
Assemble Bottom	
Panel Bottom	
Assemble Tops	
Set Leg	
each 24 \$ - \$ - \$ - 24 \$ - \$ \$ - \$ \$ - \$ \$ \$	
Each 24	
Each 24	
Each 24	
Total Cost = \$ 2.500 per pound \$ 4,224.50 \$ 101,388.09 \$ 4,224.50	
S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Total structure count: 28	
S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Total Tower Weight With Guys and Ext. (1b) = 7555 Total Tower Height(ft) = 151 Section Weight (lb) = 1889 Site Preparation	
S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Total Tower Weight With Guys and Ext. (lb) = 7555 Total Tower Height(ft) = 151 Section Weight (lb) = 1889 Site Preparation	· ·
Total Tower Weight With Guys and Ext. (Ib) = 7555 Total Tower Height(ff) = 151 Section Weight (Ib) = 1889	- \$ 4,721.91 \$
Site Preparation Site Preparation each 28 2 \$ 675.12 \$ - 28 \$ - Haul Hauling each 28 1 1.19 \$ 441.04 \$ 526.35 \$ 14,737.83 28 \$ 526.35	
Haul Hauling each 28 1 1.19 \$ 441.04 \$ 526.35 \$ 14,737.83 28 \$ 526.35	
Haul Hauling each 28 1 1.19 \$ 441.04 \$ 526.35 \$ 14,737.83 28 \$ 526.35	
Setup Blocks Blocking Crew each 28 3 \$ 281.84 \$ - 28 \$ -	
Assemble Bottom Lattice Assembly each 28 4 2.78 \$ 1,183.92 \$ 3,288.55 \$ 92,079.42 28 \$ 3,288.55	
Panel Bottom Lattice Erection each 28 5 \$ 1,519.02 \$ - \$ - 28 \$ -	
Assemble Tops Lattice Assembly each 28 4 \$ 1,183.92 \$ - \$ - 28 \$ -	
Set Leg Tower Topping each 28 6 0.55 \$ 1,656.68 \$ 907.01 \$ 25,396.22 28 \$ 907.01	
each 28 \$ - \$ - 28 \$ -	
each 28 \$ - \$ - 28 \$ -	
each 28 \$ - \$ - 28 \$ -	
each 28 \$ - \$ - 28 \$ -	
Total Cost = \$ 2.500 per pound \$ 4,721.91 \$ 132,213.47 \$ 4,721.91	
D81 S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Total structure count: 8 EA \$ 44,818.87 \$ 5,602.36 \$	- \$ 5,602.36 \$
S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	
Total Tower Weight With Guys and Ext. (Ib) = 8964 Total Tower Height(ft) = 156 Section Weight (Ib) = 2241	
Site Preparation	
Haul Hauling each 8 1 1.42 \$ 441.04 \$ 624.49 \$ 4,995.96 8 \$ 624.49	
Setup Blocks Blocking Crew each 8 3 \$ 281.84 \$ - \$ - 8 -	
Assemble Bottom Lattice Assembly each 8 4 3.30 \$ 1,183.92 \$ 3,901.74 \$ 31,213.88 8 \$ 3,901.74	
Panel Bottom	
Assemble Tops	
Set Leg Tower Topping each 8 6 0.65 \$ 1,076.13 \$ 8,609.03 8 \$ 1,076.13	
each 8 \$ - \$ - 8 \$ -	
each 8 \$ - \$ - 8 \$ -	
each 8 \$ - \$ - 8 \$ -	
each 8 \$ - \$ - 8 \$ -	
Total Cost = \$ 2.500 per pound \$ 5,602.36 \$ 44,818.87 \$ 5,602.36	
₹ 5,502.00 ¥ 17,010.01	



NALCOR 350 kV HVdc Line Construc	tion Front 1 (I	Labrador)						Crew Cost							Total Unit Cost	
				Units		Hours per									Manhours and	
Description				Total	Crew No.	unit	Hou	urly Rate	Unit Cost	Subtotal	Units	Un	it Cost	Materials	Materials	Total Materials
												•		_		•
S1-D82 Assembly and Erection of +9 m leg S1-D82 Assembly and Erection of +9 m leg e	extension for	Medium Angle Tower	lotal struc	ture count:	8	EA				\$ 58,103	.40	\$	7,262.93	\$ -	\$ 7,262.93	\$
Total Tower Weight With Guys and Ext. (lb) =	10296	Total Tower Height(ft) =		uwg. 505573-4622 Section Weight (lb) =	2574	ieg										
Site Preparation	10290	Site Preparation	each		2374		¢	675.12	\$ -	\$. 8	3 \$	_			
Haul		Site Preparation Hauling	each	8		1.63	\$		\$ 717.26	Ψ		3 \$	717.26			
Setup Blocks		Blocking Crew	each	8		1.00	\$	281.84				3 \$	-			
Assemble Bottom		Lattice Assembly	each	8		3.79	\$		\$ 4,481.33	*		3 \$	4,481.33			
Panel Bottom		Lattice Erection	each	8		0.70	\$	1.519.02	\$ -	\$		3 \$	-			
Assemble Tops		Lattice Assembly	each	8			\$	1,183.92	\$ -			8 \$	_			
Set Leg		Tower Topping	each	8	6	1.25	\$	1,656.68	\$ 2,064.33	\$ 16,514		3 \$	2,064.33			
		······································	each	8	3		\$		· · · · · · · · · · · · · · · · · · ·	\$		3 \$	-			
			each	8	3		\$	-	\$ -	\$		3 \$	-			
			each	8	3		\$	-	\$ -	\$. /	3 \$	_			
			each	8	3		\$	-	\$ -	\$	- 8	3 \$	-			
-	Total Cost =	\$ 2.822	per pound			•	•		\$ 7,262.93	\$ 58,103	.40	\$	7,262.93			
Assembly and Erection of Medium	Angle Tower	r Type "C1"														
S1-D83 Assembly and Erection of Medium	Angle Tower T	ype "C1" Basic Body	Total struc	ture count:	21	EA				\$ 2,531,996	.75	\$	120,571.27	\$ -	\$ 120,571.27	\$
S1-D83 Assembly and Erection of Medium Ar	ngle Tower Type	"C1" Basic Body as pe	er dwg. 50557	'3-4622-43DD-000)4	_										
Total Tower Weight With Guys and Ext. (lb) =	39636	Total Tower Height(ft) =	119	Section Weight (lb) =	39636											
Site Preparation		Site Preparation	each	21	2	2.00	\$	675. 12	\$ 1,350.24	\$ 28,355	.14 2	1 \$	1,350.24			
Haul		Hauling	each	21		20.87	\$	441.04	1 1 2 1			1 \$	9,204.36			
Setup Blocks		Blocking Crew	each	21		2.00	\$	2 81.84	·			1 \$	563.68			
Assemble		Lattice Assembly	each	21		58.29	\$	1,183.92				1 \$	69,008.70			
Erect Tower		Tower Topping	each	21		11.49	\$	1,656.68	· · · · · · · · · · · · · · · · · · ·			1 \$	19,033.14			
haul Insulators and Travellers		Haul Travellers&Glass	each	21		3.00	\$	636.64				1 \$	1,909.91			
Hang Travellers		Hang Travellers	each	21		2.00	\$	1,444.07				1 \$	2,888.13			
Dead-end		Deadends	each	21		12.00	\$	1,384.42	· · · · · · · · · · · · · · · · · · ·	\$ 348,875		1 \$	16,613.10			
			each	21			\$		\$ -	\$		1 \$	-			
			each	21			\$		\$ -			1 \$	-			
-	Total Cost =	\$ 2.623	each	21			\$		\$ -	*		1 \$ \$	-			
	rotal Cost –	ў 2.023	per pound	1					\$ 120,571.27	\$ 2,531,996	.73	Ф	120,571.27			
S1-D84 Assembly and Erection of +4.5 m b	ody aytansian	for Madium Angla	Total struc	ture count:	0	EA				\$		\$	23.805.13	¢ -	\$ 23.805.13	e e
S1-D84 Assembly and Erection of +4.5 m boo										Ψ		Ψ	25,005.15	Ψ -	Ψ 25,005.15	Ψ
Total Tower Weight With Guys and Ext. (lb) =	9703	Total Tower Height(ft) =		Section Weight (lb) =	9703											
Site Preparation		Site Preparation	each	()			\$	675.12	\$ -	\$. (\$	-			
Haul		Hauling	each		_	5.11	\$	441.04	Ÿ.			0 \$	-			
Setup Blocks		Blocking Crew	each		3		\$	281.84	, , , , , ,			0 \$	-			
Assemble Bottom		Lattice Assembly	each	C		14.27	\$		\$ 16,892.81	\$		5 \$	_			
Panel Bottom		Lattice Erection	each	C	5		\$		\$ -	\$		0 \$	-			
Assemble Tops		Lattice Assembly	each	C	4		\$		\$ -	\$	- (3 \$	-			
Top / Assembly Tower		Tower Topping	each	C	6	2.81	\$	1,656.68	\$ 4,659.17	\$	- (3 \$	-			
			each	C			\$	_	\$ -	\$) \$	-			
							\$	_	\$ -	\$) \$	_			
			each													
			each	(\$		\$ -	\$) \$	-			
				(\$		\$ - \$ - \$ 23,805.13	\$) \$) \$	-			



Valard Construction LP

	NALCOR 350 kV HVdc Line Construction Front 1	(Labrador)						Crew Cost							Total Unit Cost	
nent		,		Units		Hours per									Manhours and	
	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units		Unit Cost	Materials	Materials	Total Materials
					_					_					•	
85	S1-D85 Assembly and Erection of +10.5 m body extension	on for Medium Angle	Total struc	ture count:	0	EA				\$	-	\$	44,425.10	\$ -	\$ 44,425.10	\$
	S1-D85 Assembly and Erection of +10.5 m body extension f															
	Total Tower Weight With Guys and Ext. (lb) = 17769	Total Tower Height(ft) =	169	Section Weight (lb) =	17769	П						- 1 -		İ		
	Site Preparation	Site Preparation	each	0			\$	675.12 \$		\$		0 \$	-			
	Haul	Hauling	each	0		9.36	\$	441.04 \$		Ψ		0 \$	=			
	Setup Blocks	Blocking Crew	each	0			\$	281.84 \$		\$		0 \$	-			
	Assemble Bottom	Lattice Assembly	each	0		26.13	\$	1,183.92 \$		•		0 \$	-			
	Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02 \$	_	\$		0 \$	=			
	Assemble Tops	Lattice Assembly	each	0			\$	1,183.92 \$		T		0 \$	-			
	Top / Assembly Tower	Tower Topping	each	0		5.65	\$	1,656.68 \$				0 \$	=			
			each	0			\$	- \$				0 \$	-			
			each	0			\$	- \$				0 \$	=			
			each	0			\$	- \$				0 \$	=			
			each	0			\$	- \$			-	0 \$	-			
	Total Cost =	\$ 2.50	00 per pound	1				\$	44,425.10	\$	-	\$	-			
						_										
86	S1-D86 Assembly and Erection of +0 m leg extension for	Medium Angle Towe	er Total struc	ture count:	40	EA				\$ 89,11	3.73	\$	2,227.84	\$ -	\$ 2,227.84	\$
	S1-D86 Assembly and Erection of +0 m leg extension for Me					eg										
	Total Tower Weight With Guys and Ext. (lb) = 3632	Total Tower Height(ft) =	119	Section Weight (lb) =	908											
	Site Preparation	Site Preparation	each	40			\$	675.12 \$				0 \$	-			
	Haul	Hauling	each	40		0.48	\$	441.04 \$		\$ 8,43	1.62 4	0 \$	210.87			
	Setup Blocks	Blocking Crew	each	40			\$	281.84 \$		\$		0 \$	-			
	Assemble Bottom	Lattice Assembly	each	40		1.34	\$	1,183.92 \$	1,580.94	\$ 63,23	7.67 4	0 \$	1,580.94			
	Panel Bottom	Lattice Erection	each	40	5		\$	1,519.02 \$	-	\$		0 \$	-			
	Assemble Tops	Lattice Assembly	each	40			\$	1,183.92 \$	-	\$		0 \$	-			
	Top / Assembly Tower	Tower Topping	each	40	6	0.26	\$	1,656.68 \$	436.04	\$ 17,44		0 \$	436.04			
	Top / Accombly Tower	rower ropping										0 \$				
	Top / / too many Tomos	Tower Topping	each	40			\$	- \$					-			
	Top / / tocomby Tomor	Tower Topping	each each	40			\$		-	\$	- 4	0 \$	-			
	Top / recembly Terrer	Tower Lopping		40		$\overline{}$	\$ \$ \$	- \$		\$	- 4					
	Top / / tocomby Tomor	Tower Topping	each	40		7	\$ \$ \$	- \$ - \$	-	\$ \$	- 4 - 4	0 \$	-			
	Total Cost =		each each	40 40 40 40			\$ \$ \$	- \$ - \$ - \$	-	\$ \$ \$ \$	- 4 - 4 - 4	0 \$	-			
			each each each	40 40 40 40			\$ \$ \$	- \$ - \$ - \$	2,227.84	\$ \$ \$ \$ \$ \$	- 4 - 4 - 4	0 \$	- - -			
7	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f	\$ 2.45	each each each 53 per pound Total struc	40 40 40 40	4	EA	\$ \$ \$	- \$ - \$ - \$	2,227.84	\$ \$ \$ \$	- 4 - 4 - 4	0 \$	- - -	\$ -	\$ 3,118.98	 \$
37	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f S1-D87 Assembly and Erection of +1.5 m leg extension for I	\$ 2.45	each each each 53 per pound Total struct ype "C1" as per	40 40 40 40	4 22-43DD-0004, pe		\$ \$ \$ \$	- \$ - \$ - \$	2,227.84	\$ \$ \$ \$ \$ \$	- 4 - 4 - 4	0 \$ 0 \$ 0 \$ \$	- - 2,227.84	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f S1-D87 Assembly and Erection of +1.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 5085	\$ 2.45	each each each 53 per pound Total struc ype "C1" as pe	40 40 40 40	4 22-43DD-0004, pe 1271		\$ \$ \$ \$	- \$ - \$ - \$ - \$	2,227.84	\$ \$ \$ \$ \$ \$	- 4 - 4 - 4	0 \$ 0 \$ 0 \$ \$	- - 2,227.84	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f S1-D87 Assembly and Erection of +1.5 m leg extension for I	\$ 2.45 or Medium Angle Medium Angle Tower T	each each each 53 per pound Total struct ype "C1" as per	40 40 40 40 2ture count:	4 22-43DD-0004, pe 1271		\$ \$ \$ \$	- \$ - \$ - \$	2,227.84	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 4 3.73 5.92	0 \$ 0 \$ 0 \$ \$ \$ \$	2,227.84 3,118.98	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f S1-D87 Assembly and Erection of +1.5 m leg extension for I Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) =	each each each 53 per pound Total struc ype "C1" as pe	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271		\$ \$ \$ \$ \$	- \$ - \$ - \$ - \$	- - - - 2,227.84	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 4 - 4 5.92	0 \$ 0 \$ 0 \$ \$ \$ \$ \$ 4 \$ 4 \$	2,227.84 3,118.98	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f S1-D87 Assembly and Erection of +1.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 5085 Site Preparation	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation	each each each 53 per pound Total struc ype "C1" as pe 124 each	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271 2	r leg	\$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$	2,227.84 2,227.84	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 4 - 4 5.92	0 \$ 0 \$ 0 \$ \$ \$ \$	2,227.84 3,118.98	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension for S1-D87 Assembly and Erection of +1.5 m leg extension for Interval Total Tower Weight With Guys and Ext. (Ib.) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling	each each each 53 per pound Total struc ype "C1" as pe 124 each each	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271 2	r leg	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$	2,227.84 2,227.84	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 3.73 5.92	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,227.84 3,118.98	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension f S1-D87 Assembly and Erection of +1.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib.) = 5085 Site Preparation Haul Setup Blocks	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each 53 per pound Total struc ype "C1" as pe 124 each each each	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271 2 1	0.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$	2,227.84 2,227.84 2,227.84	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 3.73 5.92	0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,227.84 3,118.98	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension for S1-D87 Assembly and Erection of +1.5 m leg extension for Interval Total Tower Weight With Guys and Ext. (Ib.) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom	\$ 2.48 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each 53 per pound Total struc ype "C1" as pe 124 each each each each	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271 2 1 3 4	0.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$	2,227.84 2,227.84 2,213.32	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 3.73 - 0.85 - 3.27 	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,227.84 3,118.98 295.21 2,213.32	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension for S1-D87 Assembly and Erection of +1.5 m leg extension for Intervention Total Tower Weight With Guys and Ext. (Ib.) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	\$ 2.48 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each 53 per pound Total struc ype "C1" as pe 124 each each each each	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271 2 1 3 4 5	0.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$	2,227.84 2,227.84 295.21 2,213.32	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 4 - 3.73 - 0.85 - 3.27 	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 2,227.84 3,118.98 - 295.21 - 2,213.32	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension of S1-D87 Assembly and Erection of +1.5 m leg extension for Intervention of	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each 53 per pound Total struc ype "C1" as per 124 each each each each each each	40 40 40 40 40 2ture count: er dwg. 505573-462 Section Weight (ib) =	4 22-43DD-0004, pe 1271 2 1 3 4 5 4	0.67 1.87	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ \$ - \$ - \$ - \$ - \$ -	2,227.84 2,227.84 2,213.32 2,213.32 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 4 - 3.73 - 0.85 - 3.27 1.80	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,227.84 3,118.98	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension of S1-D87 Assembly and Erection of +1.5 m leg extension for Intervention of	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each 53 per pound Total struc Type "C1" as per 124 each each each each each each each	40 40 40 40 40 40 40 40 40 40 40 40 40 4	4 22-43DD-0004, pe 1271 2 1 3 4 5 4	0.67 1.87	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	2,227.84 2,227.84 2,213.32 2,213.32 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 3.73 - 0.85 - 3.27 1.80	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 2,227.84 3,118.98 - 295.21 - 2,213.32 - 610.45	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension of S1-D87 Assembly and Erection of +1.5 m leg extension for Intervention of	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each 53 per pound Total struc Type "C1" as per 124 each each each each each each each each	40 40 40 40 40 40 40 40 40 40 40 40 40 4	4 22-43DD-0004, pe 1271 2 1 3 4 5 4 6	0.67 1.87	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	2,227.84 2,227.84 295.21 2,213.32 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 3.73 - 0.85 - 3.27 1.80	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	2,227.84 3,118.98 295.21 - 2,213.32 - 610.45	\$ -	\$ 3,118.98	\$
	Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension of S1-D87 Assembly and Erection of +1.5 m leg extension for Intervention of	\$ 2.45 or Medium Angle Medium Angle Tower T Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each 53 per pound Total struc Total struc Total struc Total struc Total struc Total struc Total struc Total struc Total struc Total struc Each each each each each each each each e	40 40 40 40 40 40 40 40 40 40 40 40 40 4	4 22-43DD-0004, pe 1271 2 1 3 4 5 4 6	0.67 1.87	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- - 2,227.84 2,227.84 295.21 - 2,213.32 - 610.45	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4 - 4 - 3.73 - 0.85 1.80 	0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$\$ \$ 0 \$ \$ 0 \$\$\$ \$ 0 \$\$ \$ 0 \$\$ \$ 0 \$\$ \$ 0 \$\$\$ \$ 0 \$\$\$ \$ 0 \$\$\$ \$ 0 \$\$\$ \$ 0 \$\$\$ \$ 0 \$\$\$ \$ 0 \$\$\$ \$ 0 \$\$\$	2,227.84 3,118.98 - 295.21 - 2,213.32 - 610.45 -	\$ -	\$ 3,118.98	\$



	NALCOR 350 kV HVdc Line Construction Front 1 (L	Labrador)						Crew Cost						Total Unit Cost	
nt	B			Units		Hours per				0.1.1.1				Manhours and	T
	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D88 Assembly and Erection of +3 m leg extension for	Medium Angle Tower	r Total struc	ture count:	16	EA				\$ 65,178.78	\$	4,073.67	¢ _	\$ 4,073.67	¢
	S1-D88 Assembly and Erection of +3 m leg extension for Med									φ 03,176.76	Ψ	4,073.07	Ψ -	Ψ 4,075.07	Ψ
	Total Tower Weight With Guys and Ext. (Ib.) = 6641	Total Tower Height(ft) =	•	Section Weight (lb) =	1660	-9									
	Site Preparation	Site Preparation	each	16			\$	675.12 \$		\$ -	16 \$	_			
	Haul	Hauling	each	16		0.87	\$	441.04 \$		\$ 6,169.18	16 \$	385.57			
	Setup Blocks	Blocking Crew	each	16		0.07	\$	281.84 \$	-	\$ -	16 \$	-			
	Assemble Bottom	Lattice Assembly	each	16		2.44	\$	1,183.92 \$		\$ 46,252.74		2,890.80			
	Panel Bottom	Lattice Assembly	each	16		2.77	\$	1,519.02 \$	2,000.00	\$ -	16 \$	-			
	Assemble Tops	Lattice Erection	each	16			\$	1,183.92 \$	-	\$ -	16 \$	-			
	Top / Assembly Tower	Tower Topping	each	16		0.48	\$	1,656.68 \$		\$ 12,756.87	16 \$	797.30			
	1 op 7 7 occinary Torror	rower ropping	each	16		0.10	\$	- \$		\$ -	16 \$	-			
			each	16			\$	- \$		\$ -	16 \$				
			each	16			\$	- \$		\$ -	16 \$	_			
			each	16			\$	- \$		\$ -	16 \$	_			
	Total Cost =	\$ 2.45	3 per pound				Ψ	\$	4,073.67			4,073.67			
	1000	¥ =	o po. pouu	ı				Y	.,0.0.0.	00,110110		1,010.01			
	S1-D89 Assembly and Erection of +4.5 m leg extension fo	or Medium Angle	Total struc	ture count:	8	EA				\$ 40,443.30	\$	5,055.41	\$ -	\$ 5,055.41	\$
	S1-D89 Assembly and Erection of +4.5 m leg extension for M									10,110.00	•	0,000111	•	• 0,000111	•
	Total Tower Weight With Guys and Ext. (lb) = 8242	Total Tower Height(ft) =		Section Weight (lb) =	2061	.09									
	Site Preparation	Site Preparation	each	J 8	2		\$	675.12 \$		\$ -	8 \$	_			
	Haul	Hauling	each	8	1	1.08	\$	441.04 \$				478.50			
	Setup Blocks	Blocking Crew	each	8		1.00	\$	281.84 \$		\$ -	8 \$	-			
	Assemble Bottom	Lattice Assembly	each	8	4	3.03	\$	1,183.92 \$		\$ 28,699.73	8 \$	3,587.47			
	Panel Bottom	Lattice Erection	each	8	5	0.00	\$	1,519.02 \$		\$ -	8 \$	-			
	Assemble Tops	Lattice Assembly	each	8	4		\$	1,183.92 \$		\$ -	8 \$	-			
	Top / Assembly Tower	Tower Topping	each	8	6	0.60	\$	1,656.68 \$	989.45	\$ 7,915.61	8 \$	989.45			
	rep / recembly remer	Tomas rapping	each	8		0.00	\$	- \$		\$ -	8 \$	-			
			each	8			\$	- \$		\$ -	8 \$	_			
			each	8			\$	- \$	_	\$ -	8 \$	_			
			each	8			<u> </u>								
							S	- S	_	\$ -	8 \$	_			
	Total Cost =	\$ 245					\$	- \$ \$	5 055 41	\$ 40 443 30	8 \$	5 055 41			
	Total Cost =	\$ 2.45	3 per pound				\$	- \$	5,055.41	\$ 40,443.30		5,055.41			
			3 per pound		8	EA	\$	- \$	5,055.41	\$ 40,443.30	\$	5,055.41	 - \$ -	\$ 6.260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for	Medium Angle Tower	3 per pound Total struc	ture count:	8 43DD-0004, per le	EA	\$	\$	5,055.41	•	\$		\$ -	\$ 6,260.27	\$
		Medium Angle Tower	per pound Total struc e "C1" as per o	ture count:			\$	\$	5,055.41	\$ 40,443.30	\$	5,055.41	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) =	per pound Total struc e "C1" as per o	ture count: dwg. 505573-4622-	43DD-0004, per le		\$	\$	5,055.41	\$ 40,443.30	\$	5,055.41	 \$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation	3 per pound r Total struc e "C1" as per c 139	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per lo 2552		\$	675.12 \$ 441.04 \$	5,055.41	\$ 40,443.30 \$ 50,082.19	\$ \$	5,055.41 6,260.27	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) =	3 per pound r Total struc e "C1" as per c 139 each	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per le 2552 2	eg	\$ \$	675.12 \$	5,055.41 - 592.54	\$ 40,443.30 \$ 50,082.19 \$ -	\$ \$	5,055.41 6,260.27	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	r Total struc e "C1" as per c 139 each each	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per le 2552 2 1 3	eg 1.34	\$	675.12 \$ 441.04 \$ 281.84 \$	5,055.41 - 592.54	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ -	\$ \$ 8 \$ 8 \$ 8 \$	5,055.41 6,260.27 - - 592.54	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling	Total struc e "C1" as per c 139 each each each	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per le 2552 2 1 3	eg	\$	675.12 \$ 441.04 \$	5,055.41 - 592.54 - 4,442.47	\$ 40,443.30 \$ 50,082.19 \$ -	8 8 8 8 8 8 8 8	5,055.41 6,260.27	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total struc e "C1" as per c 139 each each each each	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per le 2552 2 1 3 4	eg 1.34	\$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$	5,055.41 - 592.54 - 4,442.47	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ - \$ 35,539.76	8 S 8 S 8 S 8 S 8 S	5,055.41 6,260.27 - 592.54 - 4,442.47	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total struc e "C1" as per c 139 each each each each each each	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per lo 2552 2 1 3 4 5	1.34 3.75	\$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$	5,055.41 - 592.54 - 4,442.47 -	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ - \$ 35,539.76 \$ - \$ -	8 S 8 S 8 S 8 S 8 S 8 S	5,055.41 6,260.27 - - 592.54 - 4,442.47	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total struc e "C1" as per c 139 each each each each each each	ture count: dwg. 505573-4622- Section Weight (lb) =	43DD-0004, per lo 2552 2 1 3 4 5	eg 1.34	\$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	5,055.41 - 592.54 - 4,442.47 - 1,225.27	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ - \$ 35,539.76 \$ - \$ 9,802.14	\$ \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$	5,055.41 6,260.27 - - 592.54 - 4,442.47 - - 1,225.27	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total structer "C1" as per of 139 each each each each each each each each	ture count: dwg. 505573-4622- Section Weight (lb) = 8 8 8 8	43DD-0004, per lo 2552 2 1 3 4 5	1.34 3.75	\$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	5,055.41 - 592.54 - 4,442.47 - 1,225.27	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ - \$ 35,539.76 \$ - \$ 9,802.14	\$ \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$	5,055.41 6,260.27 - - 592.54 - 4,442.47 - - 1,225.27	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total structer "C1" as per of 139 each each each each each each each each	ture count: lwg. 505573-4622- Section Weight (lb) = 8 8 8 8 8 8	43DD-0004, per lo 2552 2 1 3 4 5	1.34 3.75	\$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$	5,055.41 - 592.54 - 4,442.47 - 1,225.27	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ - \$ 35,539.76 \$ - \$ 9,802.14	\$ \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$	5,055.41 6,260.27 - - 592.54 - 4,442.47 - - 1,225.27	\$ -	\$ 6,260.27	\$
	S1-D90 Assembly and Erection of +6 m leg extension for S1-D90 Assembly and Erection of +6 m leg extension for Med Total Tower Weight With Guys and Ext. (lb) = 10206 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower dium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total structer "C1" as per of 139 each each each each each each each each	ture count: dwg. 505573-4622- Section Weight (lb) = 8 8 8 8 8 8	43DD-0004, per le 2552 2 1 3 4 5 4 6	1.34 3.75	\$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	5,055.41 - 592.54 - 4,442.47 - 1,225.27	\$ 40,443.30 \$ 50,082.19 \$ - \$ 4,740.28 \$ 35,539.76 \$ - \$ 9,802.14 \$ - \$ -	\$ \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$	5,055.41 6,260.27 - - 592.54 - 4,442.47 - - 1,225.27	\$ -	\$ 6,260.27	\$



<u> </u>	NALCOR 350 kV HVdc Line Construction Front	1 (Labra	ador)						Crew Cost							Total U	Jnit Cost		
nt		,	,		Units		Hours per									Manho	ours and		
	Description				Total	Crew No.	unit	Но	urly Rate	Unit Cost	Subtotal	Units	Unit Cost	:	Materials	Ma	aterials	Total Materials	
_																			
S	S1-D91 Assembly and Erection of +7.5 m leg extension	n for Med	dium Angle	Total struc	ture count:	8	EA				\$ 58,531.	9	\$ 7,310	6.39 \$	-	\$	7,316.39	\$	
S	S1-D91 Assembly and Erection of +7.5 m leg extension for	or Mediun	n Angle Tower	Type "C1" as pe	er dwg. 505573-4	62 <mark>2-43DD-0004</mark> , p	er leg												
_	Total Tower Weight With Guys and Ext. (lb) = 11928	В то	otal Tower Height(ft) =	144	Section Weight (lb) =	2982													
S	Site Preparation	Sit	Preparation	each		8 2		\$	675.12	7	\$ -	8		-					
H	Haul	Ha	uling	each		8 1	1.57	\$	441.04	\$ 692.50	\$ 5,539.	97 8	\$ 693	2.50					
S	Setup Blocks	Blo	cking Crew	each		8 3		\$	281.84	\$ -	\$ -	8	\$	-					
A	Assemble Bottom	Lat	tice Assembly	each		8 4	4.39	\$	1,183.92	\$ 5,191.92	\$ 41,535.	84 8	\$ 5,19	1.92					
F	Panel Bottom	Lat	tice Erection	each		8 5		\$	1,519.02	\$ -	\$	8	\$	-					
A	Assemble Tops	Lat	tice Assembly	each		8 4		\$	1,183.92	\$ -	\$ -	8	\$	-					
T	Top / Assembly Tower	To	ver Topping	each		8 6	0.86	\$	1,656.68	\$ 1,431.97	\$ 11,455.	77 8	\$ 1,43	1.97					
	•			each		8		\$	-/	\$ -	\$ -	8	\$	-					
				each		8		\$	-	\$ -	\$ -	8	\$	-					
				each		8		\$	-	\$ -	\$ -	8	\$	-					
				each		8		\$	-	\$ -	\$ -	8	\$	-					
<u> </u>	Total Cost =	(3 2.4	153 per pound		•	•	•		\$ 7,316.39	\$ 58,531.)9	\$ 7,310	6.39					
					•														
S	S1-D92 Assembly and Erection of +9 m leg extension	for Medi	ım Anale Tow	er Total struc	ture count:	0	EA				\$ -		\$ 8,912	2.05 \$	-	\$	8,912.05	\$	
	S1-D92 Assembly and Erection of +9 m leg extension for					22-43DD-0004, per											•	•	
	Total Tower Weight With Guys and Ext. (lb) = 14530		otal Tower Height(ft) =		Section Weight (lb) =	3632	5												
S	Site Preparation		Preparation	each	1	0 2		\$	675.12	\$ -	\$ -	0	\$	_					
_	Haul		uling	each		0 1	1.91	\$	441.04				•	_					
11-				Cuon			1.01	Ψ	111100	1 1 1 1 1 1									
_	Setun Blocks			each		0 3		\$	281 84	\$ _	· ·	1 0	\$	- 1					
S	Setup Blocks Assemble Rottom	Blo	cking Crew	each each		0 3	5.34	\$	281.84 1 183 92		\$ \$	_		-					
S	Assemble Bottom	Blo	cking Crew tice Assembly	each		0 4	5.34	\$ \$	1,183.92	\$ 6,324.25	\$ -	0	\$	-					
S A F	Assemble Bottom Panel Bottom	Blo Lat Lat	cking Crew tice Assembly tice Erection	each each		0 4 0 5	5.34	\$ \$ \$	1,183.92 1,519.02	\$ 6,324.25 \$ -	\$ -	0	\$	-					
S F F	Assemble Bottom Panel Bottom Assemble Tops	Blo Lat Lat	cking Crew tice Assembly tice Erection tice Assembly	each each each		0 4 0 5 0 4		\$ \$ \$	1,183.92 1,519.02 1,183.92	\$ 6,324.25 \$ -	\$ - \$ -	0 0	\$ \$ \$	- -					
S F F	Assemble Bottom Panel Bottom	Blo Lat Lat	cking Crew tice Assembly tice Erection	each each each each		0 4 0 5	5.34	\$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ - \$ 1,744.28	\$ - \$ - \$ -	0 0 0	\$ \$ \$	- - -					
S F F	Assemble Bottom Panel Bottom Assemble Tops	Blo Lat Lat	cking Crew tice Assembly tice Erection tice Assembly	each each each each each		0 4 0 5 0 4 0 6		\$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ - \$ 1,744.28 \$ -	\$ - \$ - \$ - \$ -	0 0 0 0	\$ \$ \$ \$	- - - -					
S F F	Assemble Bottom Panel Bottom Assemble Tops	Blo Lat Lat	cking Crew tice Assembly tice Erection tice Assembly	each each each each each each		0 4 0 5 0 4 0 6		\$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ - \$ 1,744.28 \$ -	\$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ \$ \$ \$ \$	- - - -					
S F F	Assemble Bottom Panel Bottom Assemble Tops	Blo Lat Lat	cking Crew tice Assembly tice Erection tice Assembly	each each each each each each each		0 4 0 5 0 4 0 6 0 6		\$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ - \$ 1,744.28 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ \$ \$ \$ \$ \$	- - - - -					
S F F	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	Bkc Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly tice Erection tice Assembly ver Topping	each each each each each each each each		0 4 0 5 0 4 0 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$	- - - - - -					
S F F	Assemble Bottom Panel Bottom Assemble Tops	Bkc Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly tice Erection tice Assembly ver Topping	each each each each each each each		0 4 0 5 0 4 0 6 0 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ - \$ 1,744.28 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$	- - - - -					
<u> </u>	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost =	Blo Lat Lat To	cking Crew tice Assembly tice Erection tice Assembly ver Topping	each each each each each each each each		0 4 0 5 0 4 0 6 0 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$	- - - - - -					
F A T	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tove	Bic Lat Lat Lat To	cking Crew tice Assembly tice Erection tice Assembly ver Topping 2.4	each each each each each each each each		0 4 0 5 0 4 0 6 0 6	1.05	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$				44 505 00	•	
F A T	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower	lat Lat Lat To	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 C2" Basic Bod	each each each each each each each each	eture count:	0 4 0 5 0 4 0 6 0 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - -	-	\$ 1	11,505.83	\$	
S A F	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Towes S1-D93 Assembly and Erection of Medium Angle Towes S1-D93 Assembly and Erection of Medium Angle Towes S1-D93 Assembly and Erection of Medium Angle Tower Towes	Bic Lat Lat To	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 C2" Basic Body as Basic Body as	each each each each each each each each	cture count: 73-4622-43DD-00	0 4 0 5 0 4 0 6 0 6 0 0 0 0	1.05	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$		-	\$ 1	11,505.83	\$	
FATT	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817	lat Lat Lat Lat To	cking Crew tice Assembly tice Erection tice Assembly ver Topping 2.4 Re "C2" C2" Basic Bood Basic Body as tal Tower Height(ft) =	each each each each each each each each	cture count: 73-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0	1.05	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 -	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05	\$ \$ \$ \$ \$ \$ \$ \$	0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	-	\$ 1	11,505.83	\$	
F A T	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (1b) = 33817 Site Preparation	Bick Lat Lat Lat Lat Lat Lat Lat Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 C2" Basic Body Basic Body as stal Tower Height(ft) = Preparation	each each each each each each each each	cture count: 3-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 38817	1.05 EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 - - - -	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05	\$ \$ \$ \$ \$ \$ \$ \$	0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		\$ 1	11,505.83	\$	
S	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (lb) = 33817 Site Preparation Haul	Bick Lat Lat Lat Lat Lat Lat Lat Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 C2" Basic Body Basic Body as stal Tower Height(ft) =	each each each each each each each each	cture count: 73-4622-43DD-0(Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.05 EA 2.00 21.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 - - - - - - - - - - - - - - - - - - -	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ - \$ 8,912.05 \$ 1,350.24 \$ 9,659.22	\$ \$ \$ \$ \$ \$ \$ \$	0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	· · · · · ·	\$ 1	11,505.83	\$	
S S S S S S S S S S	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks	Bick Lat Lat Lat Lat Lat Lat Lat Lat Lat Lat	cking Crew titice Assembly titice Erection titice Assembly titice Erection titice Assembly wer Topping C2.4 E "C2" C2" Basic Body Basic Body as olal Tower Height(ft) = Preparation Jiling cking Crew	each each each each each each each each	cture count: r3-4622-43DD-0(Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.00 21.90 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 - - - - - - - - - - - - - - - - - - -	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ - \$ 8,912.05 \$ 1,350.24 \$ 9,659.22 \$ 563.68	\$	0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$		\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom	Bick Lat Lat Lat Lat Lat Lat Lat Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly wer Topping 5 2.4 e "C2" C2" Basic Bod Basic Body as olal Tower Height(ft) = p Preparation Jiling cking Crew tice Assembly	each each each each each each each each	Eture count: 73-4622-43DD-0(Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.05 EA 2.00 21.90	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05 \$ 1,350.24 \$ 9,659.22 \$ 563.68 \$ 58,877.24	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$		\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Bic Lat Lat Lat Lat Lat Lat Lat Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly tice Erection 2.4 E "C2" C2" Basic Boo Basic Body as stal Tower Height(ft) = 9 Preparation ulting tice Assembly tice Assembly tice Erection	each each each each each each each each	Eture count: 73-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.00 21.90 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ - \$ 8,912.05 \$ 1,350.24 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ -	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$	-	\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Wer Type Wer Type Wer Sign Lat Lat To	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 E "C2" C2" Basic Bod Basic Body as stal Tower Height(ft) = Preparation uling cking Crew tice Assembly tice Erection tice Erection tice Assembly	each each each each each each each each	Eture count: 73-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.00 21.90 2.00 49.73	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05 \$ 1,350.24 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ - \$ -	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$ 0.24 9.22 3.68 7.24	-	\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Erect Tower	wer Type " Sisse Hall Lat Lat To C Lat To Lat To Lat Lat Lat Lat Lat Lat Lat La	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 Pe "C2" C2" Basic Bod Basic Body as stal Tower Height(ft) = 9 Preparation tice Assembly tice Assembly tice Assembly tice Erection tice Assembly wer Topping	each each each each each each each each	cture count: 73-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.00 21.90 2.00 49.73	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05 \$ 1,350.24 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ - \$ - \$ 16,238.80	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$ 0.24 9.22 3.68 7.24 8.80	_	\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Erect Tower Haul Insulators and Travellers	wer Type " Sisse Hall Lat Lat To C Lat To Lat To Lat Lat Lat Lat Lat Lat Lat La	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 E "C2" C2" Basic Bod Basic Body as stal Tower Height(ft) = Preparation uling cking Crew tice Assembly tice Erection tice Erection tice Assembly	each each each each each each each each	cture count: 73-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.05 EA 2.00 21.90 2.00 49.73 9.80 4.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ - \$ 16,238.80 \$ 2,546.55	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 4 38 24 43 24 24 24 24 24 24 29 29 29 29 29 29 29 29 29 29 29 29 29	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$ 0.24 9.22 3.68 7.24 8.80 6.55	-	\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Erect Tower Total Travellers Hang Travellers	Wer Type For Type "C2" Store Lat Lat Lat Lat Lat Lat Lat La	cking Crew tice Assembly tice Assembly tice Erection tice Assembly wer Topping 6 2.4 Pe "C2" C2" Basic Bod Basic Body as stal Tower Height(ft) = p Preparation dice Assembly tice Erection tice Assembly tice Erection tice Assembly wer Topping ut Travellers&Glass ng Travellers	each each each each each each each each	cture count: //3-4622-43DD-00 Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.00 21.90 2.00 49.73 9.80 4.00 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ 8,912.05 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ 9,659.22 \$ 563.68 \$ 2,546.55 \$ 2,888.13	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$ 0.24 9.22 3.68 7.24	-	\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Erect Tower Haul Insulators and Travellers	Wer Type For Type "C2" Store Lat Lat Lat Lat Lat Lat Lat La	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 C2" Basic Bod Basic Body as stal Tower Height(ft) = Preparation tice Assembly tice Assembly tice Assembly tice Assembly wer Topping	each each each each each each each each	23-4622-43DD-0(Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.05 EA 2.00 21.90 2.00 49.73 9.80 4.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ - \$ 8,912.05 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ - \$ 16,238.80 \$ 2,546.55 \$ 2,888.13 \$ 19,381.95	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 4 38 24 13 24 24 24 24 24 19 24 21 24 28 24	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$ 0.24 9.22 3.68 7.24		\$ 1	11,505.83	\$	
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = Assembly and Erection of Medium Angle Tower S1-D93 Assembly and Erection of Medium Angle Tower Total Tower Weight With Guys and Ext. (Ib) = 33817 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Erect Tower Total Travellers Hang Travellers	Bick Lat Lat Lat Lat Lat Lat Lat Lat Lat Lat	cking Crew tice Assembly tice Erection tice Assembly wer Topping 2.4 E "C2" C2" Basic Body Basic Body as stal Tower Height(ft) = p Preparation tice Assembly tice Erection tice Assembly tice Erection tice Assembly and Tower Topping ut Tavellers & Glass g Travellers adends	each each each each each each each each	23-4622-43DD-0(Section Weight (lb) =	0 4 0 5 0 4 0 6 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.00 21.90 2.00 49.73 9.80 4.00 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,183.92 1,519.02 1,183.92 1,656.68 	\$ 6,324.25 \$ - \$ 1,744.28 \$ - \$ - \$ - \$ - \$ 8,912.05 \$ 9,659.22 \$ 563.68 \$ 58,877.24 \$ - \$ 16,238.80 \$ 2,546.55 \$ 2,888.13 \$ 19,381.95	\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 4 38 24 24 24 24 24 24 24 21 24 88 24	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.83 \$ 0.24 9.22 3.68 7.248.880 6.55 8.13 11.95		\$ 1	11,505.83	\$	



Ţ	NALCOR 350 kV HVdc Line Construction Front 1 (L	_abrador)						Crew Cost							Total Unit Cost	
yment				Units		Hours per				1					Manhours and	
m	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtota	al U	Jnits	Unit Cost	Materials	Materials	Total Materials
D 04	0.00.4		T-1-1-4		_					6 400	0.47.07	•	05 000 00	*	. 05.050.00	•
:D94	S1-D94 Assembly and Erection of +4.5 m body extension	for Medium Angle	Total struct		4	EA				\$ 103,	947.67	\$	25,986.92	-	\$ 25,986.92	\$
	S1-D94 Assembly and Erection of +4.5 m body extension for															
	Total Tower Weight With Guys and Ext. (lb) = 10366	Total Tower Height(ft) =		Section Weight (lb) =	10366	ı	•	075.40	<u> </u>			410		1		
	Site Preparation	Site Preparation	each	4	2	0.74	\$	675.12		\$	- 040.74	4 \$	-			
L	Haul	Hauling	each	4	1	6.71	\$	441.04		\$ 11,	843.71	4 \$	2,960.93			
	Setup Blocks	Blocking Crew	each	4	3		\$	281.84		\$	-	4 \$	<u> </u>			
ļ	Assemble Bottom	Lattice Assembly	each	4	4	15.24	\$	1,183.92	,	\$ 72,	192.66	4 \$	18,048.16			
ļ	Panel Bottom	Lattice Erection	each	4	5		\$	1,519.02		\$	-	4 \$	-			
ļ	Assemble Tops	Lattice Assembly	each	4	4	0.00	\$	1,183.92	*	\$	-	4 \$	-			
ļ	Top / Assembly Tower	Tower Topping	each	4	6	3.00	\$	1,656.68	·	\$ 19,	911.30	4 \$	4,977.83			
ļ			each	4			\$	-/	·	\$	-	4 \$	-			
ļ			each	4			\$	- :		\$		4 \$	-			
ļ			each	4			\$	- :		\$	-	4 \$	-			
ļ			each	4			\$	-			-	4 \$				
	Total Cost =	\$ 2.507	7 per pound	1				;	\$ 25,986.92	\$ 103,	947.67	\$	25,986.92			
95	S1-D95 Assembly and Erection of +10.5 m body extension	s for Madium Angla	Total struc	ture count:	0	EA				\$	-	\$	-	¢ _	\$ -	■ ¢
,33	S1-D95 Assembly and Erection of +10.5 m body extension fo	r Medium Angle Tower				EA				4		Φ		Ψ -	•	Ψ
	Total Tower Weight With Guys and Ext. (lb) = 26024	Total Tower Height(ft) =		Section Weight (lb) =	4022-43DD-0012 0											
r	Site Preparation	Site Preparation	each	Section Weight (ib) =			\$	675.12	\$ -	4	-	0 \$				
ļ	Haul		each	0	1	0.00	\$	441.04		Φ	-	0 \$	-			
ļ	Setup Blocks	Hauling	each	0	_	0.00	\$	281.84		Ф Ф	-	0 \$				
ļ	Assemble Bottom	Blocking Crew	each	0		0.00	Φ		\$ \$	Φ	-	0 \$	-			
ļ	Panel Bottom	Lattice Assembly	each	0	5	0.00	Φ	1,103.92	·	Φ	-	0 \$	-			
	Assemble Tops	Lattice Erection	each	0			Φ	1,183.92	Ψ	Φ	-	0 \$	<u> </u>			
J	Top / Assembly Tower	Lattice Assembly	each	0	6	0.00	Ф	1,183.92	-	\$	-	0 \$	<u> </u>			
ļ	Top / Assembly Tower	Tower Topping	each	0	0	0.00	\$	7		φ •		0 \$				
ļ				0			\$		<u>-</u>	φ •	-		-			
ļ			each each	0			\$		-	\$	-	0 \$ 0 \$	-			
ļ				0			\$	-		\$	-	0 \$	-			
J	Total Coat -	#DIV//01	each	Ū			\$		т	\$	-		-			
	Total Cost =	#DIV/0!	per pound	1					-	\$	-	\$	-			
96	S1-D96 Assembly and Erection of +0 m leg extension for	Medium Angle Tower	Total struct	ture count:	40	EA				\$ 105,	008.81	\$	2,625.22	\$ -	\$ 2,625.22	\$
,,,,	S1-D96 Assembly and Erection of +0 m leg extension for Med	dium Angle Tower Type	e "C2" as per d	lwa. 505573-4622						4 .00,	000.01	•	2,020:22	•	Ψ 2,020:22	•
	Total Tower Weight With Guys and Ext. (lb) = 4189	Total Tower Height(ft) =		Section Weight (lb) =	1047	5										
ŗ	Site Preparation	Site Preparation	each	40	2		\$	675.12	\$ -	\$	-	40 \$	_			
ŀ	Haul	Hauling	each	40	1	0.68	\$	441.04	•		964.62	40 \$	299.12			
ŀ	Setup Blocks	Blocking Crew	each	40	3	3.33	\$	281.84	•	\$	-	40 \$	-			
ŀ	Assemble Bottom	Lattice Assembly	each	40	4	1.54	\$	1,183.92	т	\$ 72	929.63	40 \$	1,823.24			
ŀ	Panel Bottom	Lattice Assembly Lattice Erection	each	40	5	1.04	\$	1,519.02		\$ 72,	-	40 \$	1,023.24			
	Assemble Tops	Lattice Erection Lattice Assembly	each	40	4		\$	1,183.92	•	\$	-	40 \$				
}	Top / Assembly Tower	Tower Topping	each	40	6	0.30	\$	1,656.68	*	\$ 20	114.56	40 \$	502.86			
ļ	TOP / NOOCHINIY TOWOL	rower ropping	each	40		0.00	\$		\$ -	\$ 20,	-	40 \$	-			
			each	40			\$		5 -	ψ (\$	-	40 \$	-			
i							ψ		•	ψ •	-	40 \$	-			
}			each	/11)												
			each	40			Φ		\$ <u>-</u>	\$						
	Total Cost =	\$ 2.50	each each 7 per pound	40			\$		\$ -	\$	- 008.81	40 \$	2,625.22			



ſ	NALCOR 350 kV HVdc Line Construction Front 1 (L	_abrador)					_	Crew Cost						Total Unit Cost	
ent	December 41 and			Units		Hours per				0.11.1	1.1-21		Mart 1	Manhours and	Tatal Mat. 1.1
L	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
•	S1-D97 Assembly and Erection of +1.5 m leg extension fo	r Madium Angla	Total struc	ture count:	12	EA				\$ 44,103.	70	3,675.31	e _	\$ 3,675.31	¢
	S1-D97 Assembly and Erection of +1.5 m leg extension for M									Ψ 44,103.		3,073.31		φ 5,075.51	Ψ
	Total Tower Weight With Guys and Ext. (lb) = 5864	Total Tower Height(ft) =		Section Weight (lb) =	1466	i iog									
Γ	Site Preparation	Site Preparation	each	12			\$	675.12	\$ -	\$ -	12 9	-			
-	Haul	Hauling	each	12		0.95	\$	441.04		\$ 5,025.					
-	Setup Blocks	Blocking Crew	each	12			\$	281.84	·	\$ -					
	Assemble Bottom	Lattice Assembly	each	12		2.16	\$	1,183.92	<u> </u>	\$ 30.630.4					
-	Panel Bottom	Lattice Erection	each	12			\$	1,519.02	, , , , , , ,	\$ -					
	Assemble Tops	Lattice Assembly	each	12			\$	1,183.92	·	\$ -					
-	Top / Assembly Tower	Tower Topping	each	12		0.42	\$	1,656.68	\$ 704.01	\$ 8,448.					
-	1		each	12			\$	- ;		\$ -					
ļ			each	12			\$	- ;	\$ -	\$ -					
j			each	12			\$	- ;		\$ -	12 5	-			
j			each	12			\$	- ;		\$ -					
_	Total Cost =	\$ 2.50	07 per pound			*			3,675.31	\$ 44,103.	70	3,675.31			
			,										_		
}	S1-D98 Assembly and Erection of +3 m leg extension for	Medium Angle Towe	r Total struc	ture count:	16	EA				\$ 81,928.	98	5,120.56	\$ -	\$ 5,120.56	\$
	S1-D98 Assembly and Erection of +3 m leg extension for Med	dium Angle Tower Typ	oe "C2" as per o	lwg. 505573-4622-	-43DD-0012, per I	eg									_
	Total Tower Weight With Guys and Ext. (lb) = 8170	Total Tower Height(ft) =	114	Section Weight (lb) =	2043										
Ī	Site Preparation	Site Preparation	each	16	2		\$	675.12	\$ -	\$ -					
	Haul	Hauling	each	16	1	1.32	\$	441.04	583.43	\$ 9,334.	92 16 9	583.43			
	Setup Blocks	Blocking Crew	each	16			\$	281.84		\$ -	16 3				
[Assemble Bottom	Lattice Assembly	each	16		3.00	\$	1,183.92	\$ 3,556.28	\$ 56,900.4	16 16	3,556.28			
	Panel Bottom	Lattice Erection	each	16	5		\$	1,519.02	-	\$ -					
-	Assemble Tops	Lattice Assembly	each	16			\$	1,183.92		\$ -					
	Top / Assembly Tower	Tower Topping	each	16		0.59	\$	1,656.68		\$ 15,693.					
			each	16			\$		<u>-</u>	\$ -					
			each	16			\$	- ;	<u> </u>	\$ -					
			each	16			\$	-		\$ -					
L			each	16			\$			\$ -					
	Total Cost =	\$ 2.50	7 per pound						5,120.56	\$ 81,928.9	98	5,120.56			
											_				
	S1-D99 Assembly and Erection of +4.5 m leg extension fo		Total struct		4	EA				\$ 25,633.2	20	6,408.30	-	\$ 6,408.30	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension for M					r leg									
Г	Total Tower Weight With Guys and Ext. (lb) = 10225	Total Tower Height(ft) =		Section Weight (lb) =	2556		Φ.	075.40	•	Ι φ	1 .1.	<u>, </u>	٦		
-	Site Preparation	Site Preparation	each	4	_	1.00	\$	675.12		\$ -			4		
L	Haul	Hauling	each	4	1	1.66	\$	441.04		\$ 2,920.0			4		
-	Setup Blocks	Blocking Crew	each	4	3	0.70	\$	281.84		ф - 47 000 °	4 9		-		
-	Assemble Bottom	Lattice Assembly	each	4	5	3.76	Φ	1,183.92 1,519.02		\$ 17,802.			4		
	Panel Bottom Assemble Tops	Lattice Erection	each each	4	4		Φ Φ	,	•	\$ -			-		
ŀ		Lattice Assembly		4	6	0.74	\$,		\$ - \$ 4,910.0			-		
	Top / Assembly Tower	Tower Topping	each	4	О	0.74	φ	1,656.68					-		
ŀ			each	4			\$	- ;		\$ -			-		
ļ			each	4			\$			\$ - \$ -			4		
- - -				4			Ф	- (5 -	φ -	4 3		_		
- - - -							ď		Ť.	¢	4 6	•			
- - -	Total Cost =	\$ 2.50	each 07 per pound	4			\$	- 9	•	\$ - \$ 25,633.2		6,408.30			



NALCO	OR 350 kV HVdc Line Construction	n Front 1 (Lai	brador)					Crew Cost									al Unit Cost	
D	* :				Units		Hours per				0	1.1			NA-4		nhours and	T-4-1 M-4:
Description	tion				Total	Crew No.	unit	Hourly Rate	Unit C	ost	Subtotal	Units	Unit Cos	st	Materials		Materials	Total Materials
C4 D400	O Accomply and Freetien of . C m less o	tamaiam fau N	ladium Anala Tau	ar Total atrus	tura counti	12	EA			\$	98.139.02		\$ 8.1	78.25 \$		- \$	8,178.25	¢
	O Assembly and Erection of +6 m leg extended and Erection of +6 m leg extended and Erection of +6 m leg extended.									Ð	90,139.02		Ф 0,1	70.23 \$		- 	0,170.25	Þ
01-0100	Total Tower Weight With Guys and Ext. (lb) =	13049	Total Tower Height(ft) =	124	Section Weight (lb) =	3262	ci icg											
Site Prep		13043	Site Preparation	each		2 2		¢ 675	.12 \$	- \$		12	\$	-				
Haul	paration		Hauling	each		2 1	2.11			931.82 \$	11.181.88	12		31.82				
Setup Blo	llocks		Blocking Crew	each		2 3	2.11		.84 \$	- \$	-	12		-				
Assemble			Lattice Assembly	each		2 4	4.80	\$ 1,183		679.87 \$	68,158.50	12		79.87				
Panel Bot			Lattice Erection	each		2 5	4.00	\$ 1,519		- \$	-	12	\$	-				
Assemble			Lattice Assembly	each		2 4		\$ 1,183		- \$		12		_				
	ssembly Tower		Tower Topping	each		2 6	0.95			.566.55 \$	18,798.65	12		66.55				
10077133	secilibily rewer		Tower Topping	each		2	0.00		- \$	- \$	-	12		-				
				each		2		<u> </u>	- \$	- \$		12	\$	_				
				each		2		<u> </u>	- \$	- \$		12		_				
				each		2		\$	- \$	- \$		12		-				
	Tota	al Cost =	\$ 2.50					Ψ		178.25 \$	98,139.02	-		78.25				
	. 5.5	0001	2.00	. po. pouu	l				Ψ 0	., 0.20	00,.00.02	-	ψ 0,.	. 0.20				
S1-D101	1 Assembly and Erection of +7.5 m leg	extension for	Medium Angle	Total struc	ture count:	4	EA			\$	38,261.89		\$ 9.5	65.47 \$		- \$	9,565.47	\$
	1 Assembly and Erection of +7.5 m leg ex										00,201100		Ψ 0,0	•••••		¥	0,000	*
01 2101	Total Tower Weight With Guys and Ext. (lb) =	15263	Total Tower Height(ft) =	129	Section Weight (lb) =	3816	por log											
		.0200	Site Preparation	each		4 2		\$ 675	.12 \$	- \$	_	4	\$	_				
Site Prep	paration									.089.88 \$	4,359.53							
Site Prep	paration			each		4 1	2 47	\$ 441	04 \$ 1			4	\$ 10	89 88 1				
Haul			Hauling	each each			2.47					4		89.88				
Haul Setup Blo	locks		Hauling Blocking Crew	each		4 3		\$ 281	.84 \$	- \$	-	4	\$	-				
Haul Setup Blo Assemble	locks ble Bottom		Hauling Blocking Crew Lattice Assembly	each each		4 3 4	5.61	\$ 281 \$ 1,183	.84 \$.92 \$ 6		26,573.25	4	\$ \$ 6,6	- 43.31				
Haul Setup Blo Assemble Panel Bot	locks le Bottom ottom		Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each		4 3 4 4 4 5		\$ 281 \$ 1,183 \$ 1,519	.84 \$.92 \$ 6	- \$, 643 .31 \$ - \$	-	4 4 4	\$ \$ 6,6 \$	- 43.31 -				
Haul Setup Blo Assemble Panel Bot Assemble	ilocks ble Bottom ottom ble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each		4 3 4 4 4 5 4 4	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$.92 \$ 6 .02 \$	- \$.643.31 \$ - \$ - \$	26,573.25	4 4 4 4	\$ \$ 6,6 \$	- 43.31 - -				
Haul Setup Blo Assemble Panel Bot Assemble	locks le Bottom ottom		Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each		4 3 4 4 4 4 5 4 4 6		\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$.92 \$ 6 .02 \$.92 \$.68 \$ 1	- \$ 643.31 \$ - \$ - \$ 832.28 \$	26,573.25 - - 7,329.11	4 4 4 4	\$ 6,6 \$ \$ \$ 1,8	- 43.31 - - 32.28				
Haul Setup Blo Assemble Panel Bot Assemble	ilocks ble Bottom ottom ble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each		4 3 4 4 4 5 4 4 4 6 4 6	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ - \$ 832.28 \$ - \$	26,573.25 - - - 7,329.11	4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8	- 43.31 - - 32.28				
Haul Setup Blo Assemble Panel Bot Assemble	ilocks ble Bottom ottom ble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each		4 3 4 4 4 4 5 4 4 6	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$	7,329.11	4 4 4 4 4 4 4	\$ 6,6 \$ 1,8 \$ \$	- 43.31 - - 32.28 - -				
Haul Setup Blo Assemble Panel Bot Assemble	ilocks ble Bottom ottom ble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each		4 3 4 4 4 5 4 4 4 6 4 6	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ - \$ 832.28 \$ - \$ - \$	26,573.25 - - - 7,329.11	4 4 4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8 \$ 5	- 43.31 - - 32.28 - -				
Haul Setup Blo Assemble Panel Bot Assemble	olocks ole Bottom ottom ole Tops ssembly Tower	al Cost =	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each		4 3 4 4 4 5 4 4 4 6 4 4 6	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ - \$	7,329.11	4 4 4 4 4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 5	- 43.31 - - 32.28 - - -				
Haul Setup Blo Assemble Panel Bot Assemble	olocks ole Bottom ottom ole Tops ssembly Tower	al Cost =	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each		4 3 4 4 4 5 4 4 4 6 4 4 6	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ - \$ 832.28 \$ - \$ - \$	7,329.11	4 4 4 4 4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 5	- 43.31 - - 32.28 - -				
Haul Setup Blo Assemble Panel Bol Assemble Top / Ass	clocks ble Bottom ottom ble Tops ssembly Tower		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each		4 3 4 4 4 5 4 4 4 6 4 4 6	5.61	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$	26,573.25 - - 7,329.11 - - - 38,261.89	4 4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5	- 43.31 - - 32.28 - - - - 65.47		- \$	10.918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass	locks le Bottom ottom ole Tops ssembly Tower Tota	extension for M	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50	each each each each each each each each	eture count:	4 3 4 4 4 5 4 4 6 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.61 1.11	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ - \$	7,329.11	4 4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5	- 43.31 - - 32.28 - - -		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass	clocks ble Bottom ottom ble Tops ssembly Tower	extension for M	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50	each each each each each each each each	eture count:	4 3 4 4 4 5 4 4 6 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.61 1.11	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183	.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$	26,573.25 - - 7,329.11 - - - 38,261.89	4 4 4 4 4 4 4	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5	- 43.31 - - 32.28 - - - - 65.47		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass	Ilocks Il	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Toy Tower Toy Tower Toy The Tower Toy Tow Tower Toy Tower Toy Tower Toy Tower Toy Tower Toy Tower Toy Tow Tower Toy Tower Toy Tower Toy Tower Toy Tower Toy Tower Toy Tow Tow Tow Tow Tow Tow Tow Tow Tow Tow	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 5 4 4 4 4 6 4 4 4 4 4 4 22-43DD-0012, p	5.61 1.11	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$	7,329.11 	4 4 4 4 4 4 4	\$ 6,66 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5	- 43.31 - - 32.28 - - - 65.47		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102	Ilocks Il	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) =	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 5 4 4 6 4 6 4 4 4 4 8 22-43DD-0012, p	5.61 1.11	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$.44 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$	7,329.11 - - - - 38,261.89	4 4 4 4 4 4 4	\$ 6,66 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5	- 43.31 - 32.28 - - - - 65.47		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep	Tota 2 Assembly and Erection of +9 m leg externation Total Tower Weight With Guys and Ext. (lb) =	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 5 4 4 6 4 6 4 4 4 4 8 22-43DD-0012, p 4355 8 2	5.61 1.11 EA	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$.44 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$	7,329.11 	4 4 4 4 4 4 4	\$ 6,66 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5 \$ 10,9	- 43.31 - - 32.28 - - - 65.47		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul	Illocks Illock	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 5 4 4 4 6 4 4 4 4 4 4 4 8 22-43DD-0012, p 4355 8 2 8 1	5.61 1.11 EA	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$ - \$ 244.01 \$	26,573.25 	4 4 4 4 4 4 4 4 4 8 8	\$ 6,66 \$ 5 \$ 1,8 \$ 5 \$ 5 \$ 9,5 \$ 10,9 \$ 1,2	- 43.31 - - 32.28 - - - - 65.47 18.15 \$		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo	Ilocks Dele Bottom Ottom Dele Tops Seembly Tower Tota 2 Assembly and Erection of +9 m leg exter Total Tower Weight With Guys and Ext. (lb) = Separation Plocks Dele Bottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 4 5 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.61 1.11 EA er leg 2.82	\$ 281 \$ 1,183 \$ 1,519 \$ 1,056 \$ 1,056 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$ - \$ 244.01 \$ - \$	26,573.25 - 7,329.11 - - 38,261.89 87,345.22	4 4 4 4 4 4 4 4 4 4 8 8 8	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 9,5 \$ 10,9 \$ 10,9	- 43.31 - - 32.28 - - - 65.47 18.15 \$		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bol Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo Assemble	Tota 2 Assembly and Erection of +9 m leg exterotal Tower Weight With Guys and Ext. (lb) = sparation Blocks Ble Bottom ottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2.50 ledium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 4 5 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.61 1.11 EA er leg 2.82	\$ 281 \$ 1,183 \$ 1,519 \$ 1,056 \$ 1,056 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$ - \$ 244.01 \$ - \$ 582.76 \$	26,573.25 - 7,329.11 - - 38,261.89 87,345.22 - 9,952.04 - 60,662.10	8 8 8 8 8 8	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 9,5 \$ 10,9 \$ 1,2 \$ 7,5	- 43.31 - - 32.28 - - - 65.47 18.15 \$		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo Assemble Panel Bot Assemble	Tota 2 Assembly and Erection of +9 m leg exterotal Tower Weight With Guys and Ext. (lb) = sparation Flocks Ble Bottom ottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 4 5 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.61 1.11 EA er leg 2.82	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ 565.47 \$ - \$ 244.01 \$ - \$ 582.76 \$ - \$ - \$ - \$	26,573.25 - 7,329.11 - - 38,261.89 87,345.22 - 9,952.04 - 60,662.10	8 8 8 8 8 8	\$ 6,6 \$ 5 \$ 1,8 \$ 5 \$ 9,5 \$ 10,9 \$ 10,9	- 43.31 - - 32.28 - - - 65.47 18.15 \$		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo Assemble Panel Bot Assemble	Tota 2 Assembly and Erection of +9 m leg exterotal Tower Weight With Guys and Ext. (lb) = sparation Blocks Ble Bottom ottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2.50 ledium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Erection	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	8 22-43DD-0012, p 4355 8 2 8 1 8 3 8 4 8 5 8 4	5.61 1.11 EA er leg 2.82 6.40	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ - \$ 565.47 \$ - \$ 244.01 \$ - \$ 582.76 \$ - \$	26,573.25 - 7,329.11 - - 38,261.89 87,345.22 - 9,952.04 - 60,662.10	8 8 8 8 8 8 8	\$ 6,6 \$ 1,8 \$ 9,5 \$ 10,9 \$ 7,5 \$ 2,0	- 43.31 - - 32.28 - - - - 65.47 18.15 \$		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo Assemble Panel Bot Assemble	Tota 2 Assembly and Erection of +9 m leg exterotal Tower Weight With Guys and Ext. (lb) = sparation Flocks Ble Bottom ottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	4 3 4 4 4 4 5 4 4 6 4 4 6 4 4 4 4 4 8 22-43DD-0012, p 4355 8 2 8 1 8 3 8 4 8 5 8 4 8 6	5.61 1.11 EA er leg 2.82 6.40	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1,183 \$ 1,183 \$ 1,183 \$ 1,656	.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ 565.47 \$ \$ 244.01 \$ - \$ 582.76 \$ - \$ 091.39 \$ - \$	26,573.25 - 7,329.11 - - 38,261.89 87,345.22 - 9,952.04 - 60,662.10 - 16,731.08	8 8 8 8 8 8 8 8	\$ 6,6 \$ 1,8	- 43.31 - - 32.28 - - - - 65.47 18.15 \$		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo Assemble Panel Bot Assemble	Tota 2 Assembly and Erection of +9 m leg exterotal Tower Weight With Guys and Ext. (lb) = sparation Flocks Ble Bottom ottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	8 22-43DD-0012, F 4355 8 2 8 1 8 3 8 4 8 5 8 6	5.61 1.11 EA er leg 2.82 6.40	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$ \$ \$ 1,183 \$ 1,183 \$ 1,183 \$ 1,656 \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ 565.47 \$ \$ 244.01 \$ - \$ 582.76 \$ - \$ 091.39 \$ - \$ - \$	26,573.25 	8 8 8 8 8 8 8 8	\$ 6,6 \$ 1,8 \$ 1,8 \$ \$ 9,5 \$ 10,9 \$ 10,9	- 43.31 - - 32.28 - - - - 65.47 18.15 \$ - 44.01 - 82.76 - - - 91.39		- \$	10,918.15	\$
Haul Setup Blo Assemble Panel Bot Assemble Top / Ass S1-D102 S1-D102 Site Prep Haul Setup Blo Assemble Panel Bot Assemble	Tota 2 Assembly and Erection of +9 m leg exterotal Tower Weight With Guys and Ext. (lb) = sparation Flocks Ble Bottom ottom	extension for M ension for Medi	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2.50 Redium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	eture count: r dwg. 505573-46 Section Weight (lb) =	8 22-43DD-0012, p 4355 8 2 28 1 1 8 3 8 4 8 5 8 4 8 6	5.61 1.11 EA er leg 2.82 6.40	\$ 281 \$ 1,183 \$ 1,519 \$ 1,183 \$ 1,656 \$ \$ \$ \$ \$ \$ \$ 1,183 \$ 1,183 \$ 1,183 \$ 1,656 \$ \$.84 \$	- \$ 643.31 \$ - \$ 832.28 \$ - \$ - \$ 565.47 \$ \$ 244.01 \$ - \$ 582.76 \$ - \$ 091.39 \$ - \$	26,573.25 - 7,329.11 - - 38,261.89 87,345.22 9,952.04 - 60,662.10 - 16,731.08	8 8 8 8 8 8 8 8	\$ 6,6 \$ 1,8 \$ 1,8 \$ \$ 9,5 \$ 10,9 \$ 10,9 \$ \$ 7,5 \$ \$ 2,0 \$ \$ \$	- 43.31 - - 32.28 - - - - 65.47 18.15 \$ - 44.01 - - 82.76 - - - 91.39		- \$	10,918.15	\$



1	NALCOR 350 kV HVdc Line Construction Front 1 (L	abrador)						Crew Cost							Total Unit Cost	
yment				Units		Hours per									Manhours and	
n	Description			Total	Crew No.	unit	ŀ	Hourly Rate	Unit Cost	Subtotal		Units	Unit Cost	Materials	Materials	Total Materials
23	Assembly and Erection of Dead-End Tower Type	e "D1"														
D103	S1-D103 Assembly and Erection of Dead-End Tower Type	"D1" Basic Body as	Total struct	ture count:	42	EA				\$ 5,710,0	66.96	\$	135,953.98	\$ -	\$ 135,953.98	\$
	S1-D103 Assembly and Erection of Dead-End Tower Type "D															
Г	Total Tower Weight With Guys and Ext. (lb) = 44777	Total Tower Height(ft) =		Section Weight (lb) =	44777			075.40	4.050.04		110.00	401.6	4.050.04			
L	Site Preparation	Site Preparation	each	42		2.00	\$	675.12	Ψ 1,0001=1		710.29	42 \$	1,350.24			
	Haul	Hauling	each	42		23.58	\$	441.04	* -,		26.95	42 \$ 42 \$	10,398.26 563.68			
-	Setup Blocks Assemble	Blocking Crew	each each	42 42		65.85	\$	281.84 1,183.92	•	\$ 3.274.3	374.75	42 \$	77,959.85			
ŀ	Assemble	Lattice Assembly	each	42	4	05.65	Φ		\$ 77,959.65 \$ -	\$ 3,274,3	-	42 \$	-			
			each	42			\$		\$ -	\$	-	42 \$	<u> </u>			
•	Erect Tower	Tower Topping	each	42		12.98	\$	1,656.68				42 \$	21,501.94			
	haul Insulators and Travellers	Haul Travellers&Glass	each	42		3.00	\$	636.64			216.31	42 \$	1,909.91			
ŀ	Hang Travellers	Hang Travellers	each	42	8	2.00	\$	1,444.07			301.62	42 \$	2,888.13			
ļ	Dead-end	Deadends	each	42		14.00	\$	1,384.42			041.70	42 \$	19,381.95			
ļ			each	42			\$		\$ -	\$	-	42 \$	-			
	Total Cost =	\$ 2.496	6 per pound						\$ 135,953.98	\$ 5,710,0	066.96	\$	135,953.98			
104	S1-D104 Assembly and Erection of +4.5 m body extension	for Dead-End Tower	r Total struct	ture count:	0	EA				\$	-	\$	28,126.94	\$ -	\$ 28,126.94	\$
	S1-D104 Assembly and Erection of +4.5 m body extension for	r Dead-End Tower Typ	e "D1" as per	dwg. 505573-4622	-43DD-0043	_										
_	Total Tower Weight With Guys and Ext. (lb) = 11464	Total Tower Height(ft) =		Section Weight (lb) =	11464											
	Site Preparation	Site Preparation	each	0			\$	675. 12		\$	-	0 \$	-			
	Haul	Hauling	each	0	1	6.04	\$	441.04	1 1 1	\$	-	0 \$	-			
	Setup Blocks	Blocking Crew	each	0	3		\$	2 81.84		\$	-	0 \$	-			
	Assemble Bottom	Lattice Assembly	each	0	4	16.86	\$		\$ 19,959.69	\$	-	0 \$	-			
	Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02		\$	-	0 \$	-			
-	Assemble Tops	Lattice Assembly	each	0	4	0.00	\$	1,183.92	5	\$	-	0 \$	-			
	Top / Assembly Tower	Tower Topping	each	0	6	3.32	\$	1,656.68		\$	-	0 \$	-			
-			each	0			\$		\$ <u>-</u>	<u>\$</u>	-	0 \$	-			
ŀ			each each	0			\$		\$ <u>-</u> \$ -	<u>ф</u>	-	0 \$	-			
ŀ			each	0		- V	Φ Φ		\$ -	Ф Ф	-	0 \$	-			
L	Total Cost =	\$ 2.453	3 per pound	O			Ψ		\$ 28,126.94	\$	-	\$	-			
	Total Oost –	ψ 2.400	o per pourid	Į.					20,120.54	Ψ		Ψ				
105	S1-D105 Assembly and Erection of +10.5 m body extensio	n for Dead-End Towe	er Total struc	ture count:	0	EA				\$	-	\$	54,290.41	\$ -	\$ 54,290.41	s
	S1-D105 Assembly and Erection of +10.5 m body extension for											7	,=	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
	Total Tower Weight With Guys and Ext. (lb) = 22128	Total Tower Height(ft) =	•	Section Weight (lb) =	22128											
ſ	Site Preparation	Site Preparation	each	0			\$	675.12	\$ -	\$	-	0 \$	-			
ļ	Haul	Hauling	each	0	1	11.65	\$	441.04	\$ 5,138.59	\$	-	0 \$	-			
ľ	Setup Blocks	Blocking Crew	each	0	3		\$	281.84	\$ -	\$	-	0 \$	=			
į	Assemble Bottom	Lattice Assembly	each	0	4	32.54	\$	1,183.92	\$ 38,526.04	\$	-	0 \$	=			
	Panel Bottom	Lattice Erection	each	0	5		\$	1,010102	\$ -	\$	-	0 \$	-			
	Assemble Tops	Lattice Assembly	each	0	4		\$	1,183.92	\$ -	\$	-	0 \$	-			
	Top / Assembly Tower	Tower Topping	each	0	6	6.41	\$	1,656.68	,	\$	-	0 \$	-			
			each	0			\$		\$ -	\$	-	0 \$	-			
ļ			each	0			\$		\$ -	\$	-	0 \$	=			
]			each	0			\$		\$ -	\$	-	0 \$	-			
Ĺ	#:a		each	0			\$		\$ -	\$	-	0 \$	-			
	Total Cost =	\$ 2.453	3 per pound						\$ 54,290.41	\$	-	\$	-			



	NALCOR 350 kV HVdc Line Construction Front 1 (I	_abrador)						Crew Cost							Total Unit Cost	
Payment		<u> </u>		Units		Hours per									Manhours and	
Item	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subto	otal	Inits	Unit Cost	Materials	Materials	Total Materials
V::D106	S1-D106 Assembly and Erection of +0 m leg extension for		Total struct		88	EA				\$ 17	77,605.42	\$	2,018.24	\$ -	\$ 2,018.24	\$
	S1-D106 Assembly and Erection of +0 m leg extension for De	• • • • • • • • • • • • • • • • • • • •														
	Total Tower Weight With Guys and Ext. (lb) = 3290	Total Tower Height(ft) =		Section Weight (lb) =	823									•		
	Site Preparation	Site Preparation	each	88			\$	675.12 \$		\$	-	88 \$	-			
	Haul	Hauling	each	88	1	0.43	\$	441.04 \$		\$ 1	16,810.36	88 \$	191.03			
	Setup Blocks	Blocking Crew	each	88	3		\$	281.84 \$		\$	-	88 \$	-			
	Assemble Bottom	Lattice Assembly	each	88	4	1.21	\$	1,183.92 \$	1,432.20	\$ 12	26,033.92	88 \$	1,432.20			
	Panel Bottom	Lattice Erection	each	88	5		\$	1,519.02 \$	_	\$	-	88 \$	-			
	Assemble Tops	Lattice Assembly	each	88	4		\$	1,183.92 \$	-	\$	-	88 \$	-			
	Top / Assembly Tower	Tower Topping	each	88	6	0.24	\$	1,656.68 \$	395.01	\$ 3	34,761.14	88 \$	395.01			
			each	88			\$	- \$	-	\$	-	88 \$	-			
			each	88			\$	- \$		\$	-	88 \$	_			
			each	88			\$	- \$		\$	-	88 \$	-			
			each	88			\$	- \$		\$	-	88 \$	-			
	Total Cost =	\$ 2.453	3 per pound				•	\$	2,018.24	\$ 17	77,605.42	\$	2,018.24			
				•												
√::D107	S1-D107 Assembly and Erection of +1.5 m leg extension f	or Dead-End Tower	Total struct	ture count:	20	EA				\$ 5	56,510.82	\$	2,825.54	\$ -	\$ 2,825.54	\$ -
	S1-D107 Assembly and Erection of +1.5 m leg extension for	Dead-End Tower Type	"D1" as per dy	vg. 505573-4622-4	3DD-0043, per led	J										
	Total Tower Weight With Guys and Ext. (lb) = 4607	Total Tower Height(ft) =		Section Weight (lb) =	1152											
	Site Preparation	Site Preparation	each	20	2		\$	675.12 \$		\$	-	20 \$	=			
	Haul	Hauling	each	20	1	0.61	\$	441.04 \$	267.44	\$	5,348.75	20 \$	267.44			
	Setup Blocks	Blocking Crew	each	20	3		\$	281.84 \$		\$	-	20 \$	-			
	Assemble Bottom	Lattice Assembly	each	20	4	1.69	\$	1,183.92 \$	2,005.09	\$ 4	40,101.70	20 \$	2,005.09			
	Panel Bottom	Lattice Erection	each	20	5		\$	1,519.02 \$	<u> </u>	\$	-	20 \$	-			
	Assemble Tops	Lattice Assembly	each	20	4		\$	1,183.92 \$	-	\$	-	20 \$	-			
	Top / Assembly Tower	Tower Topping	each	20	6	0.33	\$	1,656.68 \$		\$ 1	11,060.36	20 \$	553.02			
			each	20			\$	- \$		\$	-	20 \$	-			
			each	20			\$	- \$		\$	_	20 \$	-			
			each	20			\$	- \$		\$	-	20 \$	-			
			each	20			\$	- \$		\$	-	20 \$	_			
	Total Cost =	\$ 2.453	B per pound				Ψ	\$	2,825.54	\$ 5	56,510.82	\$	2,825.54			
	Total Cool	Ψ 2.100	o I poi pouria	1				•	2,020.01	Ψ	30,010.02	Ψ	2,020.01			
V::D108	S1-D108 Assembly and Erection of +3 m leg extension for	r Dead-End Tower	Total struct	ture count:	16	EA				\$ 6	63,469.53	\$	3,966.85	\$ -	\$ 3,966.85	s .
	S1-D108 Assembly and Erection of +3 m leg extension for De									•	30, 100.00	V	0,000.00	\	ψ 0,000.00	·
	Total Tower Weight With Guys and Ext. (lb) = 6467	Total Tower Height(ft) =		Section Weight (lb) =	1617											
	Site Preparation	Site Preparation	each	16			\$	675.12 \$	-	\$	-	16 \$	_			
	Haul	Hauling	each	16	1	0.85	\$	441.04 \$		\$	6.007.39	16 \$	375.46			
	Setup Blocks	Blocking Crew	each	16	3	0.00	\$	281.84 \$		\$	-	16 \$	-			
	Assemble Bottom	Lattice Assembly	each	16	4	2.38	\$	1,183.92 \$		\$ 4	45,039.80	16 \$	2,814.99			
	Panel Bottom	Lattice Assembly Lattice Erection	each	16	5	2.00	\$	1,519.02 \$		\$	-	16 \$	2,014.33			
	Assemble Tops	Lattice Erection Lattice Assembly	each	16	4		\$	1,183.92 \$		\$		16 \$				
	Top / Assembly Tower	Lattice Assembly Tower Topping	each	16	6	0.47	\$	1,656.68 \$		\$ 1	12,422.33	16 \$	776.40			
	TOP / AGGETTINIY TOWER	Tower Topping	each	16	0	0.47	¢	- \$		ψ I	-	16 \$	-			
			each	16			Φ			ψ ¢		16 \$	-			
			each	16			Φ	- \$		ψ Φ		16 \$	-			
			each	16			Φ	- \$		ψ Φ	-	16 \$				
	Tatal Ocat	c 0.45					Ф	7		Φ •		10 \$	2 066 95			
	Total Cost =	\$ 2.453	3 per pound					\$	3,966.85	Φ 6	63,469.53	\$	3,966.85			



	NALCOR 350 kV HVdc Line Construction Front	ont 1 (Labrador)					Crew Cost						Total Unit Cost	
	Non-anti-Alica			Units		Hours per			0	1.1		Matariala	Manhours and	T-4-1 M4-4
D	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
_	NA DAGO A		Total stance		•	- FA		\$	04 044 77		\$ 5.402.94	^	£ 5.400.04	•
S	61-D109 Assembly and Erection of +4.5 m leg extension 61-D109 Assembly and Erection of +4.5 m leg extensions	ension for Dead-End Tower	Total struct		4 12DD 0042, per le	EA		\$	21,611.77		\$ 5,402.94	5 -	\$ 5,402.94	Þ
3		3809 Total Tower Height(ft) =		vg. 505575-4622-4 Section Weight (lb) =	2202	y g								
9	Site Preparation	Site Preparation	each	Section Weight (ib) =	2		\$ 675.12	\$ - \$		4	\$ -			
_	Haul		each	4	1	1.16	\$ 441.04		2.045.56					
	Setup Blocks	Hauling Blocking Crew	each	4	3	1.10	\$ 281.84	, , , , ,	2,043.30	4				
	Assemble Bottom	Lattice Assembly	each	4	4	3.24	<u>'</u>	\$ 3,834.08 \$	15,336.33	4				
	Panel Bottom	Lattice Erection	each	1	5	5.24		\$ - \$	-	4				
	Assemble Tops	Lattice Erection Lattice Assembly	each	4	4		\$ 1,183.92	\$ - \$		4				
_	Top / Assembly Tower	Tower Topping	each	4	6	0.64	\$ 1,656.68	Ψ Ψ						
<u> ' '</u>	op / / Gaernary Tower	rower ropping	each	4	0	0.04	<u> </u>	\$ - \$		4	,			
-			each	4			,	\$ - \$		4				
H			each	4			·	\$ - \$		4				
			each	4				\$ - \$		4				
_	Total Co	ost = \$ 2.453				1	1 +	\$ 5,402.94 \$	21,611.77		\$ 5,402.94			
		· · · · · · · · · · · · · · · · · · ·	1 1 1	Į				7		_	7 3,10=101			
S	S1-D110 Assembly and Erection of +6 m leg exten	nsion for Dead-End Tower	Total struct	ture count:	28	EA		\$	178,960.38		\$ 6,391.44	\$ -	\$ 6,391.44	\$
	S1-D110 Assembly and Erection of +6 m leg extension										,		,	
	,	0420 Total Tower Height(ft) =		Section Weight (lb) =	2605									
S	Site Preparation	Site Preparation	each	28			\$ 675.12	\$ - \$	-	28	\$ -			
_	laul	Hauling	each	28		1.37	\$ 441.04		16,938.61	28				
S	Setup Blocks	Blocking Crew	each	28			\$ 281.84		=	28				
Α	Assemble Bottom	Lattice Assembly	each	28	4	3.83	\$ 1,183.92	\$ 4,535.55 \$	126,995.43	28	\$ 4,535.55			
Р	Panel Bottom	Lattice Erection	each	28			\$ 1,519.02	\$ - \$	-	28				
Α	Assemble Tops	Lattice Assembly	each	28			\$ 1,183.92	\$ - \$	-	28	\$ -			
T														
115	Top / Assembly Tower	Tower Topping	each	28	6	0.76	\$ 1,656.68	\$ 1,250.94 \$	35,026.34	28	\$ 1,250.94			
ľ	op / Assembly Tower	Tower Topping	each each	28 28		0.76	7	\$ 1,250.94 \$ - \$	35,026.34 -	28 28				
Ë	op / Assembly Tower	Tower Topping				0.76	\$ -			28 28	\$ - \$ -			
Ë	op / Assembly Tower	Tower Topping	each	28		0.76	\$ -	\$ - \$	-	28	\$ - \$ -			
-	op / Assembly Tower	Tower Topping	each each	28 28		0.76	\$ - \$ -	\$ - \$ \$ - \$	-	28 28	\$ - \$ - \$ -			
- - -	op / Assembly Tower Total Co		each each each	28 28 28 28		0.76	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$	-	28 28 28 28	\$ - \$ - \$ -			
<u>'</u> - -			each each each each	28 28 28 28		H	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$	- - - -	28 28 28 28	\$ - \$ - \$ - \$ -			
s	Total Co	ost = \$ 2.453 ension for Dead-End Tower	each each each each per pound	28 28 28 28 28	8	EA	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$	- - - -	28 28 28 28 28	\$ - \$ - \$ - \$ -	\$ -	\$ 7,612.53	 \$
s	Total Co S1-D111 Assembly and Erection of +7.5 m leg extenses S1-D111 Assembly and Erection of +7.5 m leg extenses	ost = \$ 2.453 ension for Dead-End Tower sion for Dead-End Tower Type "	each each each each per pound Total struct D1" as per dv	28 28 28 28 28 28 ture count:	8 3DD-0043, per le	EA	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$	- - - - - 178,960.38	28 28 28 28 28	\$ - \$ - \$ - \$ - \$ 6,391.44	\$ -	\$ 7,612.53	\$
S S	Total Co S1-D111 Assembly and Erection of +7.5 m leg extens S1-D111 Assembly and Erection of +7.5 m leg extens Total Tower Weight With Guys and Ext. (lb.) = 1.	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) =	each each each each per pound Total struct D1" as per dv 146	28 28 28 28 28 28 28 28 28 29 505573-4622-4 Section Weight (lb) =	8 3DD-0043, per le 3103	EA	\$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$	- - - - - 178,960.38	28 28 28 28 28	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53	\$ -	\$ 7,612.53	\$
s S	Total Co S1-D111 Assembly and Erection of +7.5 m leg extens S1-D111 Assembly and Erection of +7.5 m leg extens Total Tower Weight With Guys and Ext. (lb) = 1.2 Site Preparation	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation	each each each each per pound Total struct D1" as per dv 146 each	28 28 28 28 28 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8 3DD-0043, per le 3103 2	EA	\$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$	- - - 178,960.38 60,900.24	28 28 28 28 28	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53	\$ -	\$ 7,612.53	\$
Si Si	Total Co S1-D111 Assembly and Erection of +7.5 m leg extens S1-D111 Assembly and Erection of +7.5 m leg extens Total Tower Weight With Guys and Ext. (lb) = 1.2 Site Preparation Haul	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) =	each each each each per pound Total struct D1" as per dv 146 each each	28 28 28 28 28 28 28 28 28 29 505573-4622-4 Section Weight (lb) =	8 3DD-0043, per le 3103 2	EA	\$ - \$ - \$ - \$ - \$ - \$ 441.04	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ - \$ \$ 720.53 \$	- - - 178,960.38 60,900.24 - 5,764.21	28 28 28 28 28 8 8	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53	\$ -	\$ 7,612.53	\$
Si Si	Total Co S1-D111 Assembly and Erection of +7.5 m leg extens S1-D111 Assembly and Erection of +7.5 m leg extens Total Tower Weight With Guys and Ext. (lb) = 1.2 Site Preparation Haul Setup Blocks	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation	each each each each per pound Total struct D1" as per dv 146 each each each	28 28 28 28 28 28 28 28 28 29 505573-4622-4 Section Weight (lb) =	8 3DD-0043, per le 3103 2 1	EA 1.63	\$ - \$ - \$ - \$ - \$ - \$ - \$ 441.04 \$ 281.84	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ 5 \$ 720.53 \$ \$ - \$	- 178,960.38 60,900.24 - 5,764.21	28 28 28 28 28 8 8 8	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ -	\$ -	\$ 7,612.53	\$
Si Si Si Si Si Si Si Si Si Si Si Si Si S	Total Co S1-D111 Assembly and Erection of +7.5 m leg extens 1 -D111 Assembly and Erection of +7.5 m leg extens Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauling	each each each each per pound Total struct D1" as per dv 146 each each each each	28 28 28 28 28 28 28 28 28 28 29 505573-4622-4 Section Weight (lb) =	8 3DD-0043, per le 3103 2 1 3 4	EA	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ \$ 720.53 \$ \$ - \$ \$ 5,402.07 \$	- - - 178,960.38 60,900.24 - - 5,764.21	28 28 28 28 28 28 8 8 8 8	\$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07	\$ -	\$ 7,612.53	\$
Si Si Si Si Si Si Si Si Si Si Si Si Si S	Total Co S1-D111 Assembly and Erection of +7.5 m leg extenses S1-D111 Assembly and Erection of +7.5 m leg extenses Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each per pound Total struct D1" as per dv 146 each each each each	28 28 28 28 28 28 28 28 28 28 29 505573-4622-4 Section Weight (lb) = 8 8 8	8 3DD-0043, per le 3103 2 1 3 4 5	EA 1.63	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ 720.53 \$ \$ - \$ \$ 5,402.07 \$ \$ - \$	- 178,960.38 60,900.24 - 5,764.21	28 28 28 28 28 28 8 8 8 8 8 8	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ -	\$ -	\$ 7,612.53	\$
Si Si H:	Total Co S1-D111 Assembly and Erection of +7.5 m leg extension of +7.5 m leg e	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each per pound Total struct D1" as per dv 146 each each each each each each	28 28 28 28 28 28 28 28 28 28 29 505573-4622-4 Section Weight (lb) = 8 8 8	8 3DD-0043, per le 3103 2 1 3 4	EA 1.63 4.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ 720.53 \$ \$ 720.53 \$ \$ 5,402.07 \$ \$ - \$	- - - 178,960.38 60,900.24 - - 5,764.21 - - 43,216.56	28 28 28 28 28 8 8 8 8 8 8 8	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ -	\$ -	\$ 7,612.53	\$
Si Si H:	Total Co S1-D111 Assembly and Erection of +7.5 m leg extenses S1-D111 Assembly and Erection of +7.5 m leg extenses Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Haufing Blocking Crew Lattice Assembly Lattice Erection	each each each each per pound Total struct D1" as per dv 146 each each each each each each each	28 28 28 28 28 28 28 28 28 28 29, 505573-4622-4 Section Weight (lb) = 8 8 8 8	8 3DD-0043, per le 3103 2 1 3 4 5	EA 1.63	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ 720.53 \$ \$ - \$ \$ 5,402.07 \$ \$ - \$ \$ 1,489.93 \$	- 178,960.38 60,900.24 - 5,764.21 - 43,216.56	28 28 28 28 28 28 8 8 8 8 8 8 8 8 8	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ - \$ - \$ 1,489.93	\$ -	\$ 7,612.53	\$
\$ S S S S S S S S S S S S S S S S S S S	Total Co S1-D111 Assembly and Erection of +7.5 m leg extension of +7.5 m leg e	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauting Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each per pound Total struct D1" as per dv 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 29, 505573-4622-4 Section Weight (lb) = 8 8 8 8	8 3DD-0043, per le 3103 2 1 3 4 5	EA 1.63 4.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ 5 \$ 720.53 \$ \$ 720.53 \$ \$ - \$ \$ 5,402.07 \$ \$ - \$ \$ 1,489.93 \$ \$ - \$	- - - - - - - - - - - - - - - - - - -	28 28 28 28 28 8 8 8 8 8 8 8 8 8 8	\$ - \$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ - \$ 1,489.93 \$ -	\$ -	\$ 7,612.53	\$
Si Si Si As	Total Co S1-D111 Assembly and Erection of +7.5 m leg extension of +7.5 m leg e	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauting Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each per pound Total struct D1" as per dv 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 29, 50573-4622-4 Section Weight (lb) = 8 8 8 8	8 3DD-0043, per le 3103 2 1 3 4 5 4 6	EA 1.63 4.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ \$ \$ 720.53 \$ \$ 720.53 \$ \$ 5,402.07 \$ \$ - \$ \$ 1,489.93 \$ \$ - \$ \$ - \$	- - - - 178,960.38 60,900.24 - - 5,764.21 - - 43,216.56 - - - - 11,919.47	28 28 28 28 28 8 8 8 8 8 8 8 8 8 8 8 8	\$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ - \$ 1,489.93 \$ - \$ 1,489.93	\$ -	\$ 7,612.53	\$
Si Si H: Si As	Total Co S1-D111 Assembly and Erection of +7.5 m leg extension of +7.5 m leg e	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauting Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each per pound Total struct D1" as per dv 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8 30D-0043, per le 3103 2 1 3 4 5 4 6	EA 1.63 4.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ 720.53 \$ \$ 720.53 \$ \$ - \$ \$ 1,489.93 \$ \$ - \$ \$ - \$ \$ - \$	- - - - - - - 5,764.21 - - - - - - - - - - - - - - - - - - -	28 28 28 28 28 28 8 8 8 8 8 8 8 8 8 8 8	\$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ - \$ 1,489.93 \$ - \$ 1,489.93 \$ - \$ -	\$ -	\$ 7,612.53	\$
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total Co S1-D111 Assembly and Erection of +7.5 m leg extension of +7.5 m leg e	ension for Dead-End Tower sion for Dead-End Tower Type " 2411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each per pound Total struct D1" as per dv 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8 30D-0043, per le 3103 2 1 3 4 5 4 6	EA 1.63 4.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 6,391.44 \$ \$ \$ \$ 720.53 \$ \$ 720.53 \$ \$ 5,402.07 \$ \$ - \$ \$ 1,489.93 \$ \$ - \$ \$ - \$	- - - - 178,960.38 60,900.24 - - 5,764.21 - - 43,216.56 - - - - 11,919.47	28 28 28 28 28 28 8 8 8 8 8 8 8 8 8 8 8	\$ - \$ - \$ - \$ 6,391.44 \$ 7,612.53 \$ - \$ 720.53 \$ - \$ 5,402.07 \$ - \$ 1,489.93 \$ - \$ 1,489.93 \$ - \$ -	\$ -	\$ 7,612.53	\$



NALCOR 350 kV HVdc Line Construction Fro	nt 1 (Labrador)					Crew Cost						Total Unit Cost	
			Units		Hours per							Manhours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials Total	Materials
0/ 0/ 0/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/		.		_				h 40.400 = 0		h 10 100 55	•	AC 100 00 5	
S1-D112 Assembly and Erection of +9 m leg extens S1-D112 Assembly and Erection of +9 m leg extension			cture count:	4 DD 0043 per lea	EA			\$ 40,402.73		\$ 10,100.68	\$	- \$ 10,100.68 \$	
,	n for Dead-End Tower Ty 468 Total Tower Height	,, ,	g. 50557 3-4622-43 Section Weight (lb) =	טט-טט43, per leg 4117				A					
Site Preparation	Site Preparation	each	Section Weight (ib) =	2		\$ 675.12	\$ -	\$ -	4	\$ -	٦		
Haul	Site Preparation Hauling	each	4		2.17	\$ 441.04	ų.	\$ 3,824.12			-		
Setup Blocks	Blocking Crew	each	4	-	2.11	\$ 281.84		\$ 5,024.12	4		=		
Assemble Bottom	Lattice Assembly	each	4		6.05	\$ 1,183.92	7	\$ 28,670.94		•	-		
Panel Bottom	Lattice Erection	each	4	-	0.00	\$ 1,519.02		\$ -	4				
Assemble Tops	Lattice Assembly	each	4			\$ 1,183.92	7	\$ -	4	•			
Top / Assembly Tower	Tower Topping	each	4	6	1.19	\$ 1,656.68	\$ 1,976.92	\$ 7,907.67	4	\$ 1,976.92			
		each	4			\$ -	\$ -	\$ -	4	\$ -			
		each	4			\$ -	\$ -	\$ -	4	\$ -			
		each	4			\$ -	\$	\$ -	4	\$ -			
		each	4			-	Ψ	\$ -	4	\$ -			
Total Cos	st = \$	2.453 per pound		·	·		\$ 10,100.68	\$ 40,402.73		\$ 10,100.68			
									-				
Assembly and Erection of Dead-End Towe	er Type "D2"												
S1-D113 Assembly and Erection of Dead-End Towe				24	EA			3 ,278,543.89		\$ 136,606.00	\$	- \$ 136,606.00 \$	
S1-D113 Assembly and Erection of Dead-End Tower 1	Гуре "D2" Basic Body as	per dwg. 505573-4			_								
Total Tower Weight With Guys and Ext. (lb) = 41	363 Total Tower Height		Section Weight (lb) =	41363							_		
Site Preparation	Site Preparation	each	24		2.00	\$ 675.12	7-22						
Haul	Hauling	each	24		25.78	\$ 441.04	7	· /		· · · · · · · · · · · · · · · · · · ·	_		
Setup Blocks	Blocking Crew	each	24		2.00	\$ 28 1.84	1	\$ 13,528.43			_		
Assemble	Lattice Assembly	each	24		60.83	\$ 1,183.92	\$ 72,016.09	·					
	Lattice Erection	each	24			\$ 1,519.02		\$ -	24				
	Lattice Assembly	each	24			\$ 1,183.92		-	24				
Erect Tower	Tower Topping	each	24		15.99	\$ 1,656.68	., ., .	. ,					
haul Insulators and Travellers	Haul Travellers&Glass	each	24		4.00	\$ 636.64	,						
Hang Travellers	Hang Travellers	each	24		2.00	\$ 1,444.07					4		
Dead-end	Deadends	each	24		14.00	\$ 1,384.42		·					
T-4-10	ot =	each	24			-		\$ 279 542 90	24	•	J		
Total Cos	st = \$	2.703 per pound					\$ 136,606.00	\$ 3,278,543.89		\$ 136,606.00			
S1-D114 Assembly and Erection of +4.5 m body ex	toncion for Dood End T	Towar Total street	etura counti	0	EA			\$ -		\$ 39,176.39	e	- \$ 39,176.39 \$	
S1-D114 Assembly and Erection of +4.5 m body extension of +4.5 m body e					LA			Ψ -		φ 35,170.39	Ψ	-	
			Section Weight (lb) =	15695									
	695 Total Tower Height	t(ft) = 121		10000		\$ 675.12	Ι φ	\$ -	0	\$ -	7		
Total Tower Weight With Guys and Ext. (lb) = 15	Total Tower Height	· · · · · · · · · · · · · · · · · · ·		2			- 1	<u> </u>					
	Site Preparation	each	0		9.78			т		•			
Total Tower Weight With Guys and Ext. (lb) = 15 Site Preparation	Site Preparation Hauling	· · · · · · · · · · · · · · · · · · ·	0	1	9.78	\$ 441.04 \$ 281.84	\$ 4,314.20	т	0	\$ -			
Total Tower Weight With Guys and Ext. (1b) = 15 Site Preparation Haul	Site Preparation Hauling Blocking Crew	each each	0	1 3		\$ 441.04 \$ 281.84	\$ 4,314.20 \$ -	-	0	\$ - \$ -	- -		
Total Tower Weight With Guys and Ext. (lb) = 15 Site Preparation Haul Setup Blocks	Site Preparation Hauling	each each each	0 0	1 3 4	9.78	\$ 441.04 \$ 281.84 \$ 1,183.92	\$ 4,314.20 \$ - \$ 27,325.58	\$ - \$ -	0 0	\$ - \$ - \$ -	1 1 1		
Total Tower Weight With Guys and Ext. (1b) = 15 Site Preparation Haul Setup Blocks Assemble Bottom	Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each	0 0 0 0	1 3 4 5		\$ 441.04 \$ 281.84	\$ 4,314.20 \$ - \$ 27,325.58 \$ -	\$ - \$ -	0	\$ - \$ - \$ -	1 - - - -		
Total Tower Weight With Guys and Ext. (lb) = 15 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each	0 0 0 0	1 3 4 5		\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ 4,314.20 \$ - \$ 27,325.58 \$ - \$ -	- - - - - - - -	0 0 0	\$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (1b) = 15 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each	0 0 0 0 0 0	1 3 4 5 4 6	23.08	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ 4,314.20 \$ - \$ 27,325.58 \$ - \$ - \$ 7,536.61	- - - - - - - -	0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (1b) = 15 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0	1 3 4 5 4 6	23.08	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	\$ 4,314.20 \$ - \$ 27,325.58 \$ - \$ - \$ 7,536.61 \$ -	\$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (lb) = 15 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0	1 3 4 5 4 6	23.08	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	\$ 4,314.20 \$ - \$ 27,325.58 \$ - \$ - \$ 7,536.61 \$ -		0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (lb) = 15 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0	1 3 4 5 4 6	23.08	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	\$ 4,314.20 \$ - \$ 27,325.58 \$ - \$ - \$ 7,536.61 \$ - \$ -	5 - 5 - 5 - 5 - 5 - 5 - 5 -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			



	NALCOR 350 kV HVdc Line Construction Front	1 (Labrador)						Crew Cost						Total Unit Cost	
ent				Units		Hours per				1				Manhours and	
ľ	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
-			·												
15	S1-D115 Assembly and Erection of +10.5 m body exter	nsion for Dead-End To	wer Total struc	ture count:	0	EA				\$	-	\$ -	-	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extensi-	on for Dead-End Tower	Type "D2" as pe	r dwg. 505573-462	2-43DD-0045	_									
	Total Tower Weight With Guys and Ext. (lb) = 16061	Total Tower Height(ft) =	140	Section Weight (lb) =	16061										
	Site Preparation	Site Preparation	each	0	2		\$	675.12	\$ -	\$	- 0	\$ -			
•	Haul	Hauling	each	0	1		\$	441.04	\$ -	\$	- 0	\$ -			
	Setup Blocks	Blocking Crew	each	0	3		\$	281.84	\$ -	\$		\$ -			
	Assemble Bottom	Lattice Assembly	each	0	4		\$	1,183.92	\$ -	\$	- 0	\$ -			
	Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02	\$ -	\$	- 0	\$ -			
Ī	Assemble Tops	Lattice Assembly	each	0	4		\$	1,183.92	\$ -	\$	- 0	\$ -			
Ī	Top / Assembly Tower	Tower Topping	each	0	6		\$	1,656.68	\$ -	\$	- 0	\$ -			
Ī	· · · · · · · · · · · · · · · · · · ·		each	0			\$	-		\$	- 0		7		
ļ			each	0			\$	-	\$ -	\$	- 0	\$ -	7		
Ī			each	0			\$	-	\$ -	\$	- 0	\$ -	7		
Ī			each	0			\$	-	\$ -	\$	- 0	\$ -	7		
_	Total Cost =	\$ -	- per pound	•		*			\$ -	\$	-	\$ -			
				1								•	_		
6	S1-D116 Assembly and Erection of +0 m leg extension	for Dead-End Tower	Total struc	ture count:	32	EA				\$ 147,52	6.45	\$ 4,610.20	- \$	\$ 4,610.20	\$
	S1-D116 Assembly and Erection of +0 m leg extension fo		"D2" as per dwo	ı. 505573-4622-43[DD-0045, per leg	_						•			
	Total Tower Weight With Guys and Ext. (lb) = 7388			Section Weight (lb) =	1847										
	Site Preparation	Site Preparation	each	32	2		\$	675.12	\$ -	\$	- 32	\$ -	7		
	Haul	Hauling	each	32	1	1.15	\$	441.04	\$ 507.69	\$ 16,24			<u>, </u>		
	Setup Blocks	Blocking Crew	each	32	3		\$	281.84	\$ -	\$	- 32				
į.															
١,	Assemble Bottom	Lattice Assembly	each	32	4	2.72	\$	1,183.92	\$ 3,215.62	\$ 102,89	9.87 32	\$ 3,215.62	!		
_	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each each	32 32	<u>4</u> 5	2.72	\$		\$ 3,215.62 \$ -	\$ 102,89	9.87 32 - 32		<u>! </u>		
Ī					<u> </u>	2.72	\$ \$ \$		\$ -	\$ 102,89 \$		\$ -			
<u> </u>	Panel Bottom	Lattice Erection	each	32	5	0.54	\$ \$ \$	1,519.02	\$ - \$ -	\$	- 32 - 32	\$ - \$ -			
<u> </u>	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each	32 32	5 4 6		\$ \$ \$ \$	1,519.02 1,183.92 1,656.68	\$ - \$ -	\$	- 32 - 32	\$ - \$ - \$ 886.89			
<u> </u>	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each each	32 32 32	5 4 6		\$ \$ \$ \$	1,519.02 1,183.92 1,656.68	\$ - \$ - \$ 886.89	\$	- 32 - 32 0.59 32	\$ - \$ 886.89 \$ -			
<u> </u>	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each each each	32 32 32 32 32 32	5 4 6		\$ \$ \$ \$	1,519.02 1,183.92 1,656.68	\$ - \$ - \$ 886.89 \$ -	\$	- 32 - 32 0.59 32 - 32 - 32	\$ - \$ 886.89 \$ - \$ -			
<u> </u>	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each each each each each	32 32 32 32	5 4 6		\$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - -	\$ - \$ 886.89 \$ - \$ -	\$	- 32 - 32 0.59 32 - 32 - 32	\$ - \$ 886.89 \$ - \$ -			
<u> </u>	Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly Tower Topping	each each each each each each	32 32 32 32 32 32 32 32	5 4 6		\$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - -	\$ - \$ 886.89 \$ - \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32	\$ - \$ 886.89 \$ - \$ -			
<u> </u>	Panel Bottom Assemble Tops Top / Assembly Tower	Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	32 32 32 32 32 32 32 32	5 4 6		\$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32	\$ - \$ 886.89 \$ - \$ - \$ - \$ -			
- I	Panel Bottom Assemble Tops Top / Assembly Tower	Lattice Erection Lattice Assembly Tower Topping \$ 2.4	each each each each each each each each	32 32 32 32 32 32 32 32	5 4 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 6.45	\$ - \$ 886.89 \$ - \$ - \$ - \$ -		\$ 6,146.94	\$
7	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost =	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower	each each each each each each each each	32 32 32 32 32 32 32 32	5 4 6	0.54 EA	\$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 6.45	\$ - \$ 886.89 \$ - \$ - \$ - \$ - \$ 4,610.20		\$ 6,146.94	\$
17 3	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Typ	each each each each each each each each	32 32 32 32 32 32 32 32	5 4 6	0.54 EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 6.45	\$ - \$ 886.89 \$ - \$ - \$ - \$ - \$ 4,610.20		\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension S1-D117 Assembly and Erection of +1.5 m leg extension	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Typ	each each each each each each each each	32 32 32 32 32 32 32 32 32 wg. 505573-4622-4	5 4 6 6 3DD-0045, per le 2463	0.54 EA	\$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 - - - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 6.45 0.97	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ 6,146.94	\$ -	\$ 6,146.94	\$
17 :	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Topad-End Tower Topad-End Tower Topad-End Tower Topad-End Tower Height(ft) =	each each each each each each each each	32 32 32 32 32 32 32 32 32 ture count: wg. 505573-4622-4 Section Weight (lb) =	5 4 6 6 3DD-0045, per le 2463	0.54 EA	\$ \$	1,519.02 1,183.92 1,656.68 - - - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ \$ \$ 147,52 \$ 98,35	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 - 4 - 5 - 6.45 0.97	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ 6,146.94	\$ -	\$ 6,146.94	\$
7	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Total Tower Height(ft) = Site Preparation	each each each each each each each each	32 32 32 32 32 32 32 32 4 4 4 5 5 5 5 5 7 3 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	16 3DD-0045, per le 2463	0.54 0.54	\$ \$	1,519.02 1,183.92 1,656.68 - - - - - - - - - - 441.04	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ \$ \$ 147,52 \$ 98,35	- 32 - 32 0.59 32 - 32 - 32 - 32 6.45 0.97	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ 6,146.94	\$ -	\$ 6,146.94	\$
17 :	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	32 32 32 32 32 32 32 32 ture count: wg. 505573-4622-4 Section Weight (lb) =	16 3DD-0045, per le 2463 2	0.54 0.54	\$ \$	1,519.02 1,183.92 1,656.68 - - - - - - - - - - - - - - - - - - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ \$ \$ 147,52 \$ 98,35	- 32 - 32 0.59 32 - 32 - 32 - 32 6.45 0.97	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ 6,146.94 \$ - \$ 676.92 \$ - \$ 4,287.49	\$ -	\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul Setup Blocks	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	32 32 32 32 32 32 32 32 32 32	16 3DD-0045, per le 2463 2 1	0.54 EA	\$ \$	1,519.02 1,183.92 1,656.68 	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 6.45 0.97	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ 6,146.94 \$ - \$ 676.92 \$ - \$ 4,287.49	\$ -	\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 9850 Site Preparation Haul Setup Blocks Assemble Bottom	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Total Tower Height(ft) = Site Preparation Haufing Blocking Crew Lattice Assembly	each each each each each each each each	32 32 32 32 32 32 32 32 32 32 ture count: wg. 505573-4622-4 Section Weight (lb) =	16 3DD-0045, per le 2463 2 1 3	0.54 EA	\$ \$	1,519.02 1,183.92 1,656.68 	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83 \$ 68,59 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 - 6.45 0.97 - 16 0.66 16 - 16 9.91 16 - 16 - 16	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ 6,146.94 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ -	\$ -	\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Total Tower Height(ft) = Site Preparation Hauting Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each each	32 32 32 32 32 32 32 32 32 32	16 3DD-0045, per le 2463 2 1 3 4 5	0.54 EA	\$ \$	1,519.02 1,183.92 1,656.68 - - - - - - - - - - - - - - - - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83 \$ 68,59 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 6.45 0.97 - 16 0.66 16 - 16 9.91 16 - 16 0.39 16	\$ \$ 886.89 \$ \$ \$ 4,610.20 \$ 6,146.94 \$ \$ 676.92 \$ \$ 4,287.49 \$ \$ 1,182.52		\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	32 32 32 32 32 32 32 32 32 ture count: wg. 505573-4622-4 Section Weight (lb) = 16 16 16 16 16 16	16 3DD-0045, per le 2463 2 1 3 4 5	0.54 EA 9 1.53 3.62	\$ \$	1,519.02 1,183.92 1,656.68 - - - - - - - - - - - - - - - - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ - \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83 \$ 68,59 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 - 6.45 0.97 - 16 0.66 16 - 16 9.91 16 - 16 - 16	\$ \$ 886.89 \$ \$ \$ 4,610.20 \$ 6,146.94 \$ \$ 676.92 \$ \$ 4,287.49 \$ \$ 1,182.52		\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	32 32 32 32 32 32 32 32 32 ture count: wg. 505573-4622-4 Section Weight (lb) = 16 16 16 16 16 16 16	16 3DD-0045, per le 2463 2 1 3 4 5	0.54 EA 9 1.53 3.62	\$ \$	1,519.02 1,183.92 1,656.68 - - - - - - - - - - - - - - - - -	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ - \$ 1,182.52	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83 \$ 68,59 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 6.45 0.97 - 16 0.66 16 - 16 9.91 16 - 16 0.39 16	\$ \$ 886.89 \$ \$ \$ 4,610.20 \$ 6,146.94 \$ \$ 676.92 \$ \$ 1,182.52 \$		\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	32 32 32 32 32 32 32 32 32 ture count: wg. 505573-4622-4 Section Weight (lb) = 16 16 16 16 16 16 16	16 3DD-0045, per le 2463 2 1 3 4 5	0.54 EA 9 1.53 3.62	\$ \$	1,519.02 1,183.92 1,656.68 	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ - \$ 1,182.52 \$ -	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83 \$ 68,59 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 32 - 6.45 0.97 - 16 0.66 16 - 16 9.91 16 - 16 0.39 16 - 16 0.39 16 - 16	\$ \$ 886.89 \$ \$ \$ 4,610.20 \$ 6,146.94 \$ \$ 676.92 \$ \$ 1,182.52 \$ \$ 1,182.52		\$ 6,146.94	\$
17	Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D117 Assembly and Erection of +1.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 9850 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly Tower Topping \$ 2.4 on for Dead-End Tower for Dead-End Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	32 32 32 32 32 32 32 32 32 32	16 3DD-0045, per le 2463 2 1 3 4 5 4	0.54 EA 9 1.53 3.62	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,519.02 1,183.92 1,656.68 	\$ - \$ 886.89 \$ - \$ - \$ - \$ 4,610.20 \$ - \$ 676.92 \$ - \$ 4,287.49 \$ - \$ 1,182.52 \$ - \$ 1,182.52	\$ 28,38 \$ 28,38 \$ \$ \$ \$ \$ 147,52 \$ 98,35 \$ 10,83 \$ 68,59 \$ \$	- 32 - 32 0.59 32 - 32 - 32 - 32 - 6.45 0.97 - 16 0.66 16 - 16 9.91 16 - 16 0.39 16 - 16 - 16 - 16	\$ \$ 886.89 \$ \$ \$ 4,610.20 \$ 6,146.94 \$ \$ 676.92 \$ \$ 1,182.52 \$ \$ 1,182.52		\$ 6,146.94	\$



Valard Construction LP

Payment em Descrip		FIUIL I (La	brador)						Crew Cost							Total Unit Cost	
em Descri					Units		Hours per									Manhours and	
	ption				Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtota	al I	Units	Unit Cost	Materials	Materials	Total Materials
	18 Assembly and Erection of +3 m leg ex			Total struc		28	EA				\$ 220,	998.01	\$	7,892.79	\$ -	\$ 7,892.79	\$
S1-D1	18 Assembly and Erection of +3 m leg exter																
0:4- D	Total Tower Weight With Guys and Ext. (lb) =	12648	Total Tower Height(ft) =		Section Weight (lb) =	3162		Φ.	075.40	Φ	I &		00 6				
	reparation		Site Preparation	each	28 28	<u>2</u> 1	4.07	\$	675.12		\$	336.86	28 \$ 28 \$	869.17			
Haul Setup I	Placks		Hauling	each each	28		1.97	\$	441.04 281.84		\$ 24,		28 \$				
	nble Bottom		Blocking Crew	each	28		4.65	φ	1,183.92	·	Φ Φ 454	- 146.37	28 \$	5,505.23			
	Bottom		Lattice Assembly	each	28		4.00	\$	1,519.02	. ,	\$ 154,	-	28 \$	5,505.23			
	nble Tops		Lattice Erection	each	28			φ	1,183.92		Φ	-	28 \$	<u> </u>			
	Assembly Tower		Lattice Assembly	each	28	6	0.92	Φ	1,656.68	*	\$ 42	514.78	28 \$	1,518.38			
10p / F	Assembly Tower		Tower Topping	each	28	0	0.92	ψ	-	, , , , , , , ,	\$ 42,	-	28 \$	1,510.50			
 				each	28			\$	-	·	\$		28 \$				
<u> </u>				each	28			\$	-		\$		28 \$				
 				each	28			\$	-		\$	-	28 \$				
	Total	Cost =	\$ 2.490	6 per pound				Ψ	-			998.01	\$	7,892.79			
	lotai	0031 -	ψ 2.430	o I per pourid	I					φ 1,032.13	Ψ 220,	330.01	Ψ	1,032.13			
D119 S1-D1	19 Assembly and Erection of +4.5 m leg	extension for	Dead-End Tower	Total struc	ture count:	12	EA				\$ 110.	727.38	\$	9,227.28	\$ -	\$ 9,227.28	S
	19 Assembly and Erection of +4.5 m leg ext										V 110,	121.00	Ψ	3,227.20	Ψ	Ψ 3,227.20	Ψ
31-01	Total Tower Weight With Guys and Ext. (lb) =	14786	Total Tower Height(ft) =	121	Wg. 505575-4022-4 Section Weight (lb) =	3697	ej .										
Site Pr	reparation	14700	Site Preparation	each	12			\$	675.12	\$ -	I \$	-	12 \$				
Haul	reparation		Hauling	each	12		2.30	\$	441.04			193.58	12 \$	1,016.13			
Setup I	Blocks		Blocking Crew	each	12		2.00	\$	281.84	\$ 1,010:10	\$	-	12 \$	-			
	nble Bottom		Lattice Assembly	each	12		5.44	\$		\$ 6,436.04	\$ 77	232.48	12 \$	6,436.04			
	Bottom		Lattice Assembly	each	12		0.44	\$	1,519.02		\$	-	12 \$	-			
	nble Tops		Lattice Assembly	each	12			\$	1,183.92	\$ -	\$	_	12 \$	_			
	Assembly Tower		Tower Topping	each	12		1.07	\$	1,656.68	\$ 1,775.11	\$ 21	301.32	12 \$	1,775.11			
10077	tooning rower		Tower Topping	each	12		1.01	\$	7	\$ -	\$	-	12 \$	-			
				each	12			\$		\$ -	\$	-	12 \$	_			
				each	12			\$			\$	-	12 \$	_			
				each	12			\$			\$	-	12 \$	_			
<u> </u>	Total	Cost =	\$ 2.490	6 per pound						*	\$ 110.	727.38	\$	9,227.28			
				. []	1					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ,		_ +	0,			
D120 S1-D12	20 Assembly and Erection of +6 m leg ex	tension for D	Dead-End Tower	Total struc	ture count:	0	EA				\$	-	\$	12,179.68	\$ -	\$ 12,179.68	\$
S1-D1	20 Assembly and Erection of +6 m leg exter	nsion for Dead	d-End Tower Type "[,	-
	Total Tower Weight With Guys and Ext. (lb) =	19518	Total Tower Height(ft) =	126	Section Weight (lb) =	4879											
Site Pr	reparation		Site Preparation	each	0	2		\$	675.12	\$ -	\$	-	0 \$	-			
Haul			Hauling	each	0	1	3.04	\$	441.04	\$ 1,341.26	\$	-	0 \$	-			
Setup I	Blocks		Blocking Crew	each	0	3		\$	281.84	\$ -	\$	-	0 \$	-			
Assem	nble Bottom		Lattice Assembly	each	0	4	7.18	\$	1,183.92	\$ 8,495.34	\$	-	0 \$	-			
Panel ¹	Bottom		Lattice Erection	each	0	5		\$	1,519.02	\$ -	\$	-	0 \$	-			
Assem	nble Tops		Lattice Assembly	each	0	4		\$	1,183.92	\$ -	\$	-	0 \$	-			
Top / F	Assembly Tower		Tower Topping	each	0	6	1.41	\$	1,656.68	\$ 2,343.08	\$	-	0 \$	-			
,	•			each	0			\$		\$ -	\$	-	0 \$	-			
				each	0			\$	- :	\$ -	\$	-	0 \$	-			
				each	0			\$	-	\$ -	\$	-	0 \$	-			
								_									
				each	0			\$	-	\$ -	\$	-	0 \$	-			
	Total	Cost =	\$ 2.49	each 6 per pound				\$	- ;	•	\$	-	0 \$	-			



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)						Crew Cost						Total Unit Cost	
Payment				Units		Hours per				1				Manhours and	
	Description			Total	Crew No.	unit	Но	urly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::D121	S1-D121 Assembly and Erection of +7.5 m leg extension	for Dead-End Tower	Total struct	ure count:	0	EA				\$ -		\$ 14,126.39	\$ -	\$ 14,126.39	-
	S1-D121 Assembly and Erection of +7.5 m leg extension for	Dead-End Tower Type	"D2" as per dv	vg. 505573-4622-4	43DD-0045, per le	g									
	Total Tower Weight With Guys and Ext. (lb) = 22637	Total Tower Height(ft) =	131	Section Weight (lb) =	5659								_		
	Site Preparation	Site Preparation	each	0	2		\$	675.12	\$ -	\$ -					
	Haul	Hauling	each	0	1	3.53	\$	441.04	\$ 1,555.63	\$ -	0	\$ -			
	Setup Blocks	Blocking Crew	each	0	3		\$	281.84	\$ -	\$ -					
	Assemble Bottom	Lattice Assembly	each	0	4	8.32	\$	1,183.92	\$ 9,853.18	\$ -	0	\$ -			
	Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02	\$ -	\$ -	0	\$ -			
	Assemble Tops	Lattice Assembly	each	0	4		\$	1,183.92	\$ -	\$ -	0	\$ -			
	Top / Assembly Tower	Tower Topping	each	0	6	1.64	\$	1,656.68	\$ 2,717.58	\$ -	0	\$ -			
			each	0			\$	-/-	\$ -	\$ -	0	\$ -			
			each	0			\$	-	\$ -	\$ -					
			each	0			\$		\$ -	\$ -					
			each	0			\$		\$ -	\$ -					
	Total Cost =	\$ 2.496	6 per pound	,		+			\$ 14,126.39			\$ -			
		,	- -	ı					,			•	-		
V::D122	S1-D122 Assembly and Erection of +9 m leg extension fo	r Dead-End Tower	Total struct	ure count:	8	EA				\$ 114,166.	80	\$ 14,270.85	\$ -	\$ 14,270.85	
	S1-D122 Assembly and Erection of +9 m leg extension for De									-		, ,,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	¥ 1,_1000	•
	Total Tower Weight With Guys and Ext. (Ib) = 22869	Total Tower Height(ft) =		Section Weight (lb) =	5717										
	Site Preparation	Site Preparation	each	8	2		\$	675.12	\$ -	-	8	\$ -	1		
	Haul	-	each	8		3.56	\$	441.04				•			
	Setup Blocks	Hauling	each	8		3.30	Φ	281.84	, , , , , ,	\$ 12,572.		, , , , ,			
	Assemble Bottom	Blocking Crew Lattice Assembly	each	8		8.41	Φ	1,183.92		Ψ					
	Panel Bottom		each	8	·	0.41	Φ		\$ 9,933.93	\$ 79,031.					
	Assemble Tops	Lattice Erection	each	8			Φ	1,183.92	T	\$ -		•			
		Lattice Assembly		8	<u> </u>	4.00	D		<u>'</u>	Ψ		*			
	Top / Assembly Tower	Tower Topping	each	ŭ		1.66	\$	1,656.68							
			each	8		_	\$		<u>-</u>	\$ -		•			
			each	8			\$		\$ -	\$ -					
			each	8			\$		\$ -	\$ -					
			each	8			\$	-	\$ -	-		•			
	Total Cost =	\$ 2.496	6 per pound						\$ 14,270.85	\$ 114,166.	80	\$ 14,270.85			
V-H25	Assembly and Erection of Dead-End Tower Typ	e "E1"													
V::D123	S1-D123 Assembly and Erection of Dead-End Tower Type	"E1" Basic Body as	Total struct	ure count:	16	EA				\$ 2,592,890.	41	\$ 162,055.65	\$ -	\$ 162,055.65	- \$
	S1-D123 Assembly and Erection of Dead-End Tower Type "E	E1" Basic Body as per d	dwg. 505573-46	622-43DD-0007											
	Total Tower Weight With Guys and Ext. (lb) = 55056	Total Tower Height(ft) =	-	Section Weight (lb) =	55056										
	Site Preparation	Site Preparation	each	16		2.00	\$	675.12	\$ 1,350.24	\$ 21,603.	92 16	\$ 1,350.24	7		
	Haul	Hauling	each	/16		30.99	\$	441.04	· /	\$ 218,678.					
	Setup Blocks	Blocking Crew	each	16		2.00	\$	281.84	* -,	\$ 9,018.					
	Assemble	Lattice Assembly	each	16		80.97	\$	1,183.92	•	\$ 1,533,702.		•			
		Lattice Erection	each	16		00.0.	\$		\$ -	\$ -					
		Lattice Erection	each	16			\$		\$ -	\$ -			†		
	Erect Tower	Tower Topping	each	16	_	15.96	\$	1,656.68	•	*		•	+		
	haul Insulators and Travellers	Haul Travellers&Glass	each	16		3.00	\$	636.64							
	Hang Travellers	Haul Travellers&Glass Hang Travellers	each	16		2.00	\$		\$ 2,888.13				1		
	Dead-end		each	16	13	14.00	¢	1,384.42	· /				+		
	Dead-crid	Deadends	each	16		14.00	ψ Φ		<u> </u>				+		
	Total Cost -	e 250					φ			\$ 2.502.900					
	Total Cost =	\$ 2.504	4 per pound						\$ 162,055.65	\$ 2,592,890.	41	\$ 162,055.65			



ľ	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crev	v Cost						Total Unit Cost	
ent				Units		Hours per								Manhours and	
ŗ	Description			Total	Crew No.	unit	Hourly F	Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials T	otal Materials
24	C4 D424 Accomply and Fraction of . 4 5 m bady systematic	. for Dood Fra	Total atrus	tura agunti	0	EA				\$ -	\$	39,331.95	¢	\$ 39,331.95	
	S1-D124 Assembly and Erection of +4.5 m body extensio S1-D124 Assembly and Erection of +4.5 m body extension for					_ EA				\$ -	Ф	39,331.95	-	\$ 39,331.95 k)
,				•											
г	Total Tower Weight With Guys and Ext. (lb) = 15851	Total Tower Hei		Section Weight (lb) =	15851	_	1.						7		
_	Site Preparation	Site Preparation	each	0		2.05	\$	675.12 \$	-	\$ -	0 \$	-	1		
	Haul	Hauling	each	0		9.35	\$	441.04 \$	4,122.07	\$ -	0 \$	-			
	Setup Blocks	Blocking Crew	each	0	0	00.04	\$	281.84 \$	- 07.500.44	\$ -	7 7	-	1		
<u> </u>	Assemble Bottom	Lattice Assembly	each	0		23.31		1,183.92 \$	27,598.11	\$ - \$ -	- T	-			
	Panel Bottom Assemble Tops	Lattice Erection	each	0	-			1,519.02 \$	-	Ť	, , ,		1		
_		Lattice Assembly	each	0	•	4.50		1,183.92 \$	7 644 77	\$ -	1	-			
-	Top / Assembly Tower	Tower Topping	each	0		4.59	\$	1,656.68 \$	7,611.77			-	-		
}			each each	0		_	Ф Ф	- \$ - \$		\$ - \$ -			4		
-			each	0			Φ Φ	- \$ - \$		\$ -			-		
-			each	0			ф Ф	- \$		\$ -			-		
L	Total Cost =	\$	2.481 per pound	·			φ	- \$ \$	39,331.95	Ψ	-	<u>-</u>	1		
	Total Cost –	Φ	2.401 per pouriu	1				Φ	39,331.93	Ψ -	Ψ	=	_		
25 \$	S1-D125 Assembly and Erection of +10.5 m body extension	on for Dood En	d Tower Total struc	ture count:	0	EA				\$ -	\$	75.089.78	¢ _	\$ 75,089.78	•
٠ د	S1-D125 Assembly and Erection of +10.5 m body extension	for Dood End T	ower Type "E1" as no	r dwa 505572 460		_				-	Ψ	75,009.70	Ψ -	φ 15,009.10	,
`	Total Tower Weight With Guys and Ext. (lb) = 30336	Total Tower Hei		Section Weight (lb) =	30336										
Γ	Site Preparation	Site Preparation	each	Section Weight (ib) =	_		¢	675.12 \$		\$ -	0 \$	-	Í		
_	Haul		each	0		17.47	Φ	441.04 \$	7,706.20				+		
<u> </u>	Setup Blocks	Hauling	each	0		17.47	Φ	281.84 \$	7,700.20	\$ -	0 \$	<u> </u>	-		
<u> </u>	Assemble Bottom	Blocking Crew Lattice Assembly	each	0		44.61	φ φ	1,183.92 \$	52,816.41	\$ -			-		
<u> </u>	Panel Bottom	Lattice Assembly Lattice Erection	each	0		44.01		1,519.02 \$	52,010.41	\$ -			-		
	Assemble Tops	Lattice Erection	each	0	-		¢	1,183.92 \$		\$ -					
_			each	0		0.70	ψ ¢	1,656.68 \$	14,567.18	\$ -			-		
	Ton / Assembly Tower	T		U							υ υ ψ	=			
-	Top / Assembly Tower	Tower Topping	each	٥		8.79	¢			\$ -	0 \$	_			
-	Top / Assembly Tower	Tower Topping	each	0		8.79	\$	- \$	-	\$ - \$	0 \$	-	1		
-	Top / Assembly Tower	Tower Topping	each	0		8.79	\$	- \$ - \$	-	\$ -	0 \$	-] - -		
-	Top / Assembly Tower	Tower Topping	each each	0		8.79	\$ \$ \$	- \$ - \$ - \$	-	\$ - \$ -	0 \$				
-			each each each	0		8.79	\$ \$ \$	- \$ - \$	- - -	\$ - \$ - \$ -	0 \$ 0 \$	- - -			
- - -	Top / Assembly Tower Total Cost =	Tower Topping	each each	0		8.79	\$ \$ \$ \$	- \$ - \$ - \$	-	\$ - \$ - \$ -	0 \$ 0 \$				
-	Total Cost =	\$	each each each 2.475 per pound	0 0			\$ \$ \$ \$	- \$ - \$ - \$	75,089.78	\$ - \$ - \$ -	0 \$ 0 \$	- - - -] 	\$ 474236	
6 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo	\$ r Dead-End To	each each each 2.475 per pound wer Total struc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20	EA	\$ \$ \$ \$	- \$ - \$ - \$	75,089.78	\$ - \$ - \$ -	0 \$ 0 \$	- - -	\$ -	\$ 4,742.36	.
:6 :	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do	\$ r Dead-End To ead-End Tower	each each 2.475 per pound	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 DD-0007, per leg	EA	\$ \$ \$ \$	- \$ - \$ - \$	75,089.78	\$ - \$ - \$ -	0 \$ 0 \$	- - - -	\$ -	\$ 4,742.36	:
6 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (Ib) = 7732	\$ r Dead-End To ead-End Tower Total Tower Hei	each each 2.475 per pound	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 DD-0007, per leg 1933	EA	\$ \$ \$ \$	- \$ - \$ - \$ - \$	75,089.78	\$ - \$ - \$ -	0 \$	- - - - - 4,742.36	 - \$ -	\$ 4,742.36	;
6 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation	each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 DD-0007, per leg 1933	EA	\$ \$ \$ \$	- \$ - \$ - \$ - \$	- - - - 75,089.78	\$ - \$ - \$ - \$ - \$ 94,847.3	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - 4,742.36	 \$ -	\$ 4,742.36	S
26 : S	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Hauling	each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 DD-0007, per leg 1933 2	EA	\$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ \$	75,089.78	\$ - \$ - \$ - \$ - \$ 94,847.3	0 \$ 0 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- - - - 4,742.36	 \$ -	\$ 4,742.36	3
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation	each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 DD-0007, per leg 1933 2 1	EA	\$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ \$ \$	- - - 75,089.78	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3	0 \$ 0 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- - - - 4,742.36	 \$ -	\$ 4,742.36	;
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul Setup Blocks	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Hauling Blocking Crew	each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 DD-0007, per leg 1933 2 1 3 4	EA 1.02		- \$ - \$ - \$ - \$ \$ - \$ \$ 441.04 \$ 281.84 \$	- - - 75,089.78 - 448.87	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3	0 \$ 0 0 \$ 0 0 \$ 0 0 \$ 0 0 0 \$ 0 0 0 0 0	- - - - - 4,742.36 - - 448.87 - - 3,365.32	\$ -	\$ 4,742.36	3
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension for S1-D126 Assembly and Erection of +0 m leg extension for Done Total Tower Weight With Guys and Ext. (Ib) = 7732 Site Preparation Haul Setup Blocks Assemble Bottom	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each	ture count: 3. 505573-4622-43 Section Weight (lb) = 20 20 20 20 20	20 DD-0007, per leg 1933 2 1 3 4 5	EA 1.02	\$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- - 75,089.78 - 448.87 - 3,365.32	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3 \$ - \$ 67,306.3	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - 4,742.36 - - 448.87 - - 3,365.32	\$ -	\$ 4,742.36	3
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Haufling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each 2.475 per pound Wer	ture count: 3. 505573-4622-43 Section Weight (lb) =	20 DD-0007, per leg 1933 2 1 3 4 5	EA 1.02	\$	- \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$	- - - 75,089.78 - 448.87 - 3,365.32 -	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3 \$ - \$ 67,306.3 \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 4,742.36 - 448.87 - 3,365.32		\$ 4,742.36	3
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each	3 Section Weight (lb) = 20 20 20 20 20 20 20 20 20 20 20 20 20	20 DD-0007, per leg 1933 2 1 3 4 5 4 6	1.02 2.84	\$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- - 75,089.78 - 448.87 - 3,365.32	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3 \$ - \$ 67,306.3 \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - 4,742.36 - 448.87 - 3,365.32 - -		\$ 4,742.36	3
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Haufling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	3. Section Weight (lb) = 20 20 20 20 20	20 DD-0007, per leg 1933 2 1 3 4 5 4 6	1.02 2.84	\$	- \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	- - 75,089.78 - 448.87 - 3,365.32 - - 928.18	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3 \$ - \$ 67,306.3 \$ - \$ 18,563.6	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - 448.87 - - 3,365.32 - - 928.18		\$ 4,742.36	3
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Haufling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	ture count: 0. 505573-4622-43 Section Weight (lb) = 20 20 20 20 20 20 20 20 20 20	20 DD-0007, per leg 1933 2 1 3 4 5 4 6	1.02 2.84	\$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- - 75,089.78 - 448.87 - 3,365.32 - - 928.18	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3 \$ - \$ 67,306.3 \$ - \$ 18,563.6 \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 4,742.36 - - 448.87 - 3,365.32 - - 928.18	\$ -	\$ 4,742.36	5
26 3	Total Cost = S1-D126 Assembly and Erection of +0 m leg extension fo S1-D126 Assembly and Erection of +0 m leg extension for Do Total Tower Weight With Guys and Ext. (lb) = 7732 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ r Dead-End To ead-End Tower Total Tower Hei Site Preparation Haufling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	3. Section Weight (lb) = 20 20 20 20 20	20 DD-0007, per leg 1933 2 1 3 4 5 4 6	1.02 2.84	\$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$	- - 75,089.78 - 448.87 - 3,365.32 - - 928.18 -	\$ - \$ - \$ - \$ 94,847.3 \$ - \$ 8,977.3 \$ - \$ 67,306.3 \$ - \$ 18,563.6 \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 4,742.36 - - 448.87 - 3,365.32 - - 928.18	\$ -	\$ 4,742.36	;



	NALCOR 350 kV HVdc Line Construction Front 1 (L	_abrador)						Crew Cost							Total Unit Cost	
Payment				Units		Hours per									Manhours and	
Item	Description			Total	Crew No.	unit	Н	lourly Rate	Unit Cost	Subtotal	Ur	nits	Unit Cost	Materials	Materials	Total Materials
V::D127	S1-D127 Assembly and Erection of +1.5 m leg extension f	or Dead-End Tower	Total struc		12	EA				\$ 75,8	77.84	\$	6,323.15	\$ -	\$ 6,323.15	\$ -
	S1-D127 Assembly and Erection of +1.5 m leg extension for I					g										
	Total Tower Weight With Guys and Ext. (lb) = 10309	Total Tower Height(ft) =	_	Section Weight (lb) =	2577											
	Site Preparation	Site Preparation	each	12			\$	675.12		\$	-	12 \$				
	Haul	Hauling	each	12		1.36	\$	441.04	*		81.84	12 \$	598.49			
	Setup Blocks	Blocking Crew	each	12			\$	281.84			-	12 \$	-			
	Assemble Bottom	Lattice Assembly	each	12		3.79	\$	1,183.92	,	\$ 53,8	45.10	12 \$	4,487.09			
	Panel Bottom	Lattice Erection	each	12			\$	1,519.02	·	\$	<u> </u>	12 \$	-			
	Assemble Tops	Lattice Assembly	each	12			\$	1,183.92	*	\$	-	12 \$				
	Top / Assembly Tower	Tower Topping	each	12		0.75	\$	1,656.68	·	\$ 14,8	50.90	12 \$	1,237.57			
			each	12			\$			\$	-	12 \$	-			
			each	12			\$	-	•	\$	-4	12 \$	-			
			each	12			\$	-		\$	-	12 \$	-			
	T. 1.5	A 2 :==	each	12			\$	-			-	12 \$	-			
	Total Cost =	\$ 2.453	per pound						\$ 6,323.15	\$ 75,8	77.84	\$	6,323.15			
V D400	04 0400 4 11 15 4 4 0 1 4 1 4	5 15 15	T-1-1-1-1			-				A 00 5	F0.00	•	0.040.00	*	f 0.040.00	
V::D128	S1-D128 Assembly and Erection of +3 m leg extension for		Total struct		8	EA				\$ 66,5	52.68	\$	8,319.08	\$ -	\$ 8,319.08	-
	S1-D128 Assembly and Erection of +3 m leg extension for De															
	Total Tower Weight With Guys and Ext. (lb) = 13563	Total Tower Height(ft) =		Section Weight (lb) =	3391		Φ.	075.40	†	Ι φ		0 6				
	Site Preparation	Site Preparation	each	8		4.70	\$	675.12			-	8 \$	- 707.40			
	Haul Setup Blocks	Hauling	each	8	<u>1</u> 3	1.79	\$	441. 04 281.84		\$ 6,2	99.21	8 \$ 8 \$	787.40			
	Assemble Bottom	Blocking Crew	each	8	4	1.00	\$		\$ - \$ 5,903.46	\$ ¢ 47.0	-	8 \$	- F 002.46			
	Panel Bottom	Lattice Assembly	each each	8	5	4.99	Ф			\$ 41,2	27.69	8 \$	5,903.46			
	Assemble Tops	Lattice Erection	each	8			Ф	1,519.02 1,183.92	Ψ	\$	-	8 \$	-			
		Lattice Assembly		8	6	0.00	D D		\$ - \$ 1,628.22	\$ 6 12.0	25.77		1,628.22			
	Top / Assembly Tower	Tower Topping	each each	8	0	0.98	\$	1,656.68		\$ 13,U		8 \$ 8 \$	1,028.22			
			each	8		_	Φ		\$ <u>-</u> \$ -	Φ	-	8 \$				
			each	8			Φ			Φ	-	8 \$	-			
			each	8			Φ			Ф Ф	-	8 \$	-			
	Total Cost =	\$ 2.453	per pound	Ŭ			φ			Φ 66.5	52.68	Φ Φ	8,319.08			
	Total Cost =	φ 2.400	per pourid	!					0,319.00	Ψ 00,5	32.00	Ψ	0,519.00			
V::D129	S1-D129 Assembly and Erection of +4.5 m leg extension f	or Dead-End Tower	Total struct	ture count:	12	EA				\$ 121,3	62 35	\$	10,113.53	¢ _	\$ 10,113.53	· .
VD129	S1-D129 Assembly and Erection of +4.5 m leg extension for I									Ψ 121,0	UZ.33	Ψ	10,113.33	Ψ -	Ψ 10,113.33	-
	Total Tower Weight With Guys and Ext. (lb) = 16488	Total Tower Height(ft) =		Section Weight (lb) =	4122	9										
	Site Preparation	Site Preparation	each	12			\$	675.12	\$ -	\$	_	12 \$	-			
	Haul	Hauling	each	12		2.17	\$	441.04		\$ 114	86.95	12 \$	957.25			
	Setup Blocks	Blocking Crew	each	12		2.11	\$	281.84	•	\$	-	12 \$	-			
	Assemble Bottom	Lattice Assembly	each	12		6.06	\$	1,183.92	•	\$ 86.1	22.22	12 \$	7,176.85			
	Panel Bottom	Lattice Assembly	each	12		3.00	\$	1,519.02	,	\$	-	12 \$	-			
	Assemble Tops	Lattice Assembly	each	12			\$	1,183.92	\$ -	\$	-	12 \$	_			
	Top / Assembly Tower	Tower Topping	each	12		1.19	\$	1,656.68	•	\$ 23.7	53.18	12 \$	1,979.43			
	1 :		each	12			\$	-	. ,	\$	-	12 \$	-			
			each	12			\$		\$ -	\$	-	12 \$	_			
			each	12			\$		\$ -	\$	-	12 \$	_			
			each	12			\$		\$ -	\$	-	12 \$	_			
	Total Cost =	\$ 2.453	per pound				, T		·	\$ 121,3		\$	10,113.53			
		,	1 1 1 1 1 1									- T	.,			



NALCOR 350 kV HVdc Line Construction	n Front 1 (Lahrador)						Crew Cost							Total Unit Cost	
yment	Trione i (Labrador)		Units		Hours per		OICW OOSL							Manhours and	
m Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units		Unit Cost	Materials	Materials	Total Materials
The second secon				Olew 140.	dilit		riodily rate	OTHE GOSE	54215141	00		Onit Oost			Total Materials
D130 S1-D130 Assembly and Erection of +6 m leg	extension for Dead-End Tower	Total struct	ure count:	4	EA				\$ 49,714	1.37	\$	12,428.59	\$ -	\$ 12,428.59	\$
S1-D130 Assembly and Erection of +6 m leg ex									Ψ 45,7 1-		Ψ	12,420.00	Ψ	Ψ 12,420.03	Ψ
Total Tower Weight With Guys and Ext. (lb) =	20263 Total Tower Height(ft) =		Section Weight (lb) =	5066											
Site Preparation	Site Preparation	each	4			\$	675.12	-	\$	_	4 \$	_			
Haul	Hauling	each	4		2.67	\$	441.04		\$ 4,705		4 \$	1,176.37			
Setup Blocks	Blocking Crew	each	4	3	2.01	\$	281.84				4 \$				
Assemble Bottom	Lattice Assembly	each	4	-	7.45	\$	1,183.92		\$ 35,278		4 \$	8,819.69			
Panel Bottom	Lattice Erection	each	4	5	11.10	\$	1,519.02	- ,			4 \$	-			
Assemble Tops	Lattice Assembly	each	4	4		\$	1,183.92				4 \$	_			
Top / Assembly Tower	Tower Topping	each	4		1.47	\$	1,656.68		\$ 9,730		4 \$	2,432.54			
vap , massimaly value.		each	4			\$	- 9				4 \$				
		each	4			\$	- 9		<u> </u>		4 \$	_			
		each	4			\$	- 3				4 \$	_			
		each	4			\$	- 9		,		4 \$	-			
To	tal Cost = \$ 2.45	3 per pound			Į.	Ť	9				\$	12,428.59			
	···· • · · · · · · · · · · · · · · · ·	- P P	ı					, , , , , ,	10,11		<u> </u>	,			
D131 S1-D131 Assembly and Erection of +7.5 m leg	g extension for Dead-End Tower	Total struct	ure count:	8	EA				\$ 115,407	. 01	\$	14,425.88	\$ -	\$ 14,425.88	\$
S1-D131 Assembly and Erection of +7.5 m leg e									,		•	,	•	, , , , , , , , , , , , , , , , , , , ,	•
Total Tower Weight With Guys and Ext. (lb) =	23519 Total Tower Height(ft) =		Section Weight (lb) =	5880	,										
Site Preparation	Site Preparation	each	8			\$	675.12	-	\$	-	8 \$	-			
Haul	Hauling	each	8	1	3.10	\$	441.04				8 \$	1,365.41			
Setup Blocks	Blocking Crew	each	8	3	0,10	\$	281.84				8 \$	-			
Assemble Bottom	Lattice Assembly	each	8	4	8.65	\$	1,183.92	10,237.02	\$ 81,896		8 \$	10,237.02			
Panel Bottom	Lattice Erection	each	8	5		\$	1,519.02				8 \$	-			
Assemble Tops	Lattice Assembly	each	8	4		\$	1,183.92	-	\$	-	8 \$	_			
Top / Assembly Tower	Tower Topping	each	8	6	1.70	\$	1,656.68		\$ 22,587	'.60	8 \$	2,823.45			
	11.0	each	8			\$	- 9				8 \$	-			
		each	8			\$	- 5		\$	-	8 \$	-			
		each	8			\$	- 3	-	\$		8 \$	-			
		each	8			\$	- 9	-	\$		8 \$	-			
To	tal Cost = \$ 2.45	3 per pound					9	14,425.88	\$ 115,407	7.01	\$	14,425.88			
			1												
D132 S1-D132 Assembly and Erection of +9 m leg	extension for Dead-End Tower	Total struct	ure count:	0	EA				\$	-	\$	16,421.81	\$ -	\$ 16,421.81	\$
S1-D132 Assembly and Erection of +9 m leg ex	tension for Dead-End Tower Type "l	E1" as per dwg.	. 505573-4622-43	DD-0007, per leg											
Total Tower Weight With Guys and Ext. (lb) =	26773 Total Tower Height(ft) =		Section Weight (lb) =	6693											
Site Preparation	Site Preparation	each	0	2		\$	675.12		\$	-	0 \$	-			
Haul	Hauling	each	0	1	3.52	\$	441.04	1,554.33	\$		0 \$	-			
Setup Blocks	Blocking Crew	each	0	3		\$	281.84		\$	-	0 \$	-			
Assemble Bottom	Lattice Assembly	each	_ 0	4	9.84	\$	1,183.92	11,653.39	\$	-	0 \$	-			
Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02		\$	-	0 \$	-			
Assemble Tops	Lattice Assembly	each	0	4		\$	1,183.92	-	\$	-	0 \$	-			
Top / Assembly Tower	Tower Topping	each	0	6	1.94	\$	1,656.68	3,214.10	\$		0 \$	-			
		each	0			\$	- 9	-	\$	-	0 \$	-			
		each	0			\$	- 9	-	\$		0 \$	-			
		each	0			\$	- 9		\$	-	0 \$	-			
		each	0			\$	- 9	-	\$	-	0 \$	-			
To	tal Cost = \$ 2.45	3 per pound					9	16,421.81	\$	-	\$	-			
							_								



	NALCOR 350 kV HVdc Line Construct	ion Front 1 (Labrador)						Crew Cost							Total Unit Cost	
Payment				Units		Hours per									Manhours and	
Item	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	S	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-E Installation of Wires and OPGV									4						
V::E01	S1-E1 Installation of Counterpoise wire, co		Total struct	ure count:	397	KM				\$ 2	2,910,500.66	\$	7,331.24	\$ -	\$ 7,331.24	-
	S1-E1 Installation of Counterpoise wire, conne	ection with tower grounding		Λ	4.0	loss feles				4						
	Haul		each	Assume 397	9	km/day 0.15	\$	405.51	\$ 62.22	¢	24,701.60	397 \$	62.22			
	Plow Counterpoise	Wire Hauling Counterpoise Instal	each	397	43	9.17	\$	750.15			2,729,928.63	397 \$	6,876.39			
	Connect at tower	Counterpoise Instal Ground Testing	each	397	25	1.50	ψ	261.75		\$	155,870.43		392.62			
	Connect at tower	Ground Testing	each	397	20	1.50	\$		\$ -	\$	-	397 \$	-			
			each	397			\$	-	\$ -	\$		397 \$	-			
			each	397			\$	- /	\$ -	\$	-	397 \$	_			
			each	397			\$	_		\$	-	397 \$				
			each	397			\$,	\$	_	397 \$				
			each	397			\$		\$ -	\$	-	397 \$	=			
			each	397			\$		\$ -	\$		397 \$	-			
			each	397			\$		\$ -	\$	-	397 \$	-			
			•						\$ 7,331.24	\$ 2	2,910,500.66	\$	7,331.24			
V::E02	S1-E2 Installation of ground rods at crossing		Total struct	ure count:	200	EA				\$	37,507.61	\$	187.54	\$ -	\$ 187.54	-
	S1-E2 Installation of ground rods at crossing of	obstacles in soil and rock														
	Haul and install	Counterpoise Instal	each	200	43	0,25	\$	750. 15		\$	37,507.61	200 \$	187.54			
			each	200			\$		\$ -	\$	-	200 \$	=			
			each	200			\$		\$ -	\$	-	200 \$	-			
			each	200			\$		-	\$	-	200 \$	-			
			each	200			\$	-	\$ -	\$	-	200 \$	-			
			each	200			\$	<u> </u>	\$ -	\$	-	200 \$	-			
			each	200 200			\$		\$ - \$ -	\$	-	200 \$ 200 \$	-			
			each	200			\$			φ ¢	-	200 \$	-			
			each each	200			\$		\$ -	\$	-	200 \$	<u>-</u>			
			each	200			Φ		\$ -	\$		200 \$	<u> </u>			
			eacii	200			Ψ		\$ 187.54	¥	37,507.61	\$	187.54			
									Ψ 107.04	Ψ	07,007.01	_Ψ_	107.04			
V::E03	S1-E3 Tower Footing resistance measurem	ent	Total struct	ure count:	397	EA				\$	51,956.81	\$	130.87	\$ -	\$ 130.87	- s
	S1-E3 Tower Footing resistance measuremen									•	,			•	•	•
	Č															
	Test Tower ground	Ground Testing	each	397	25	0.50	\$	261.75	\$ 130.87	\$	51,956.81	397 \$	130.87			
			each	397			\$	-	\$ -	\$	-	397 \$	=			
			each	397			\$	-	\$ -	\$	-	397 \$	-			
			each	397			\$	-	\$ -	\$	-	397 \$	-			
			each	397			\$	<u>-</u>	\$ -	\$	-	397 \$	-			
			each	397			\$	-	\$ -	\$	-	397 \$	=			
			each	397			\$	-	\$ -	\$	-	397 \$	-			
			each	397			\$		\$ -	\$	-	397 \$	-			
			each	397			\$		\$ -	\$	-	397 \$				
			each	397			\$	-	\$ -	\$	-	397 \$	-			
			each	397			\$		\$ -	\$	- E4 0E6 04	397 \$	130.87			
									\$ 130.87	Ф	51,956.81	\$	130.87			



NALCOR 350 kV HVdc Line Construction	n Front 1 (Labrador)		Lluita			Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S1-E4 S1 - Installation of Conductor on Steel	Towers - 3633 0 kcmil 110/7 A	CSR Total struct	ure count	250	KM		\$	17,575,667.22	\$	70,302.67		\$ 70,302.67	
S1-E4 S1 - Installation of Conductor on Steel To							•	11,010,001.22	Ψ	70,002.07	γ	Ψ 10,002.01	Ψ
1350m per reel / Average		-	Assume		.1 km/day								
Haul	Wire Hauling	each	250	9	7.30	\$ 405.51	\$ 2,960.84 \$	740,211.16	250 \$	2,960.84			
Prepare Pull site	Pull Site Prep	each	250	10	3.70	\$ 1,282.13		1,187,158.30	250 \$				
Install Rock anchor for pull site 50%	Rock Foundations	each	250	36	0.99	\$ 920.20	\$ 908.84 \$	227,210.80	250 \$				
Pull In Conductor & Sag	Stringing	each	250	11	10.00	\$ 5,977.88	\$ 59,778.85 \$	14,944,711.96					
		each	250				\$ - \$		250 \$				
Sock installation by Helicopter	HeliSockInstall	each	250	34	1.00	\$ 1,905.50	\$ 1,905.50 \$	476,375.00		1,905.50			
		each	250				\$ - \$		250 \$	-			
		each	250			<u> </u>	\$ - \$	-	250 \$	-			
		each	250			•	\$ - \$	-	250 \$	-			
		each	250			<u> </u>	\$ - \$		250 \$				
		each	250			\$ -	\$ - \$		250 \$				
							\$ 70,302.67 \$	17,575,667.22	\$	70,302.67			
00 54 00 1 4 11 4 4 4 0 1 4 0 4 1	T 0000 0 1 11 44 0 17 A	00D T-1-1-1		4.47	1/84			40 477 044 04		00.045.00	•	£ 00.04F.00	•
S2-E4 S2 - Installation of Conductor on Steel S2-E4 S2 - Installation of Conductor on Steel To				147	KM		\$	13,177,814.34	\$	89,645.00	-	\$ 89,645.00	Þ
1350m per reel / Average			Assume		O km/day								
Haul			Assume 147	9	.9 km/day	\$ 405.51	\$ 8,110.14 \$	1,192,190.53	147 \$	8,110.14			
Prepare Pull site	Wire Hauling	each each	147	10	3.70	\$ 1,282.13		698,049.08					
Install Rock anchor for pull site 100%	Pull Site Prep	each	147	36	1.98	\$ 920.20		267,199.90	147 \$	1,817.69			
THISTAIL ROCK ALICHOL FOI DUIL SILE 100%	Rock Foundations	each	147	11	12.22	\$ 5,9 77.88		10,740,266.33	147 \$	73,063.04			
			147	- 11	12.22		\$ 73,003.04 \$	10,740,200.33	147 \$	73,003.04			
Pull In Conductor & Sag	Stringing		1/17										
Pull In Conductor & Sag		each	147	3/1	1.00			280 108 50					
	Stringing HellSockInstall	each each	147	34	1.00	\$ 1,905.50	\$ 1,905.50 \$	280,108.50	147 \$	1,905.50			
Pull In Conductor & Sag		each		34	1.00	\$ 1,905.50 \$ -		-	147 \$ 147 \$	1,905.50			
Pull In Conductor & Sag Sock installation by Helicopter	HeliSockinstali	each each each	147 147			\$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ \$ - \$ \$ 89,645.00 \$	13,177,814.34	147 \$ 147 \$ \$	1,905.50 - 89,645.00	t .	¢ 86 555 42	l ¢
Pull In Conductor & Sag Sock installation by Helicopter	HeliSockInstall Towers - 3633.0 kcmil 110/7 A	each each each	147 147 ure count:	0	1.00	\$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ - \$	-	147 \$ 147 \$	1,905.50 - 89,645.00	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel	HeliSockInstall Towers - 3633.0 kcmil 110/7 Acwers - 3633.0 kcmil 110/7 ACSF	each each each	147 147 ure count:	0		\$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ \$ - \$ \$ 89,645.00 \$	13,177,814.34	147 \$ 147 \$ \$	1,905.50 - 89,645.00	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul	HeliSockInstall Towers - 3633.0 kcmil 110/7 Acwers - 3633.0 kcmil 110/7 ACSF	each each each CSR Total struct	147 147 ure count: blete for both poles Assume 0	0 0	KM .9 km/day 12.38	\$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$	13,177,814.34	147 \$ 147 \$ \$ \$	1,905.50 - 89,645.00 86,555.42	\$ -	\$ 86,555.42	\$
Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel 1350m per reel / Average	Towers - 3633.0 kcmil 110/7 Acsr Haul distance =	each each each CSR Total struct Conductor, comp	147 147 uure count:	0 0	KM .9 km/day 12.38 3.70	\$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	13,177,814.34 -	147 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ 0 \$	1,905.50 - 89,645.00 86,555.42 •	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66%	Towers - 3633.0 kcmil 110/7 Acsembly Ac	each each each CSR Total struct Conductor, comp 400 km each	147 147 ure count: blete for both poles Assume 0	0 9 10 36	KM .9 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	13,177,814.34	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42 \$	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site	HeliSockinstall Towers - 3633.0 kcmil 110/7 Acservers - 3633.	each each each CSR Total struct Conductor, comp 400 km each each each each	147 147 147 ure count: blete for both poles Assume 0 0 0	0 0 9 10	KM .9 km/day 12.38 3.70	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	13,177,814.34 - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42 \$	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	HeilSockInstall Towers - 3633.0 kcmil 110/7 Acservers - 3633.	each each each CSR Total struct Conductor, comp 400 km each each each each each	147 147 ure count: blete for both poles Assume 0	0 9 10 36 11	KM .9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	13,177,814.34 - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42 \$	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66%	HeilSockInstall Towers - 3633.0 kcmil 110/7 Acservers - 3633.	each each each CSR Total struct CONDUCTOR, comp 400 km each each each each each each each	147 147 147 ure count: blete for both poles Assume 0 0 0	0 9 10 36	KM .9 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	13,177,814.34 - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	HeliSockInstall Towers - 3633.0 kcmil 110/7 A/ Wers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing	each each each CSR Total struct Conductor, comp 400 km each each each each each	147 147 147 ure count: blete for both poles Assume 0 0 0	0 9 10 36 11	KM .9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$	- 13,177,814.34 - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	HeliSockInstall Towers - 3633.0 kcmil 110/7 A/ Wers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing	each each each CSR Total struct CONDUCTOR, comp 400 km each each each each each each each	147 147 147 ure count: blete for both poles Assume 0 0 0	0 9 10 36 11	KM .9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 13,177,814.34 - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42	\$ -	\$ 86,555.42	\$
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter	Towers - 3633.0 kcmil 110/7 Activers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockinstall	each each each CSR Total struct CONDUCTOR COMPUTE AUTOM C	147 147 147 sure count: Dete for both poles Assume 0 0 0 0 0 0 0 0 0	0 9 10 36 11	KM .9 km/day	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$	- 13,177,814.34 - - - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel	Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockinstall Towers - 3633.0 kcmil 110/7 A	each each each CSR Total struct Conductor, comp 400 km each each each each each each each cach each	147 147 147 sure count: blete for both poles Assume 0 0 0 0 0 0 0 0 ure count:	0 9 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$	- 13,177,814.34 - - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42 S		\$ 86,555.42 \$ 73,271.23	
S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To	Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockinstall Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF	each each each CSR Total struct Conductor, comp 400 km each each each each each each cach each cach c	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34	KM 19 km/day 12.38 3.70 1.98 12.22 1.00 KM	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$	- 13,177,814.34 - - - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average	Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockinstall Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF Haul distance =	each each each CSR Total struct Conductor, comp 400 km each each each each each each each eac	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34	KM 19 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day	\$ 1,905.50 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 4,748.63 \$ \$ 1,817.69 \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ \$ 86,555.42 \$ \$	- 13,177,814.34 - - - - - - - -	147 \$ 147 \$ 147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel 1350m per reel / Average Haul	Towers - 3633.0 kcmil 110/7 Activers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockinstall Towers - 3633.0 kcmil 110/7 Activers - 3633.0 kcmil 110/7 ACSF Haul distance =	each each each each CSR Total struct Conductor, comp 400 km each each each each each each cach each e	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34	KM .9 km/day	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ 4,545.42 \$ \$ \$ 5,020.56 \$ \$ \$ 5,020.56 \$ \$	- 13,177,814.34 - - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel 1350m per reel / Average Haul Prepare Pull site	Towers - 3633.0 kcmil 110/7 Activers	each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 1,905.50 \$ \$ \$ 86,555.42 \$ \$ \$ 5,020.56 \$ \$ \$ 4,748.63 \$	- 13,177,814.34 - - - - - - -	147 \$ 147 \$ 147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100%	Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockinstall Towers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations	each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34 0 1 9 10 36	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 920.20	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 1,905.50 \$ \$ \$ 6,555.42 \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ 1,817.69 \$ \$ \$ \$ 1,817.69 \$ \$ \$ \$ 1,817.69 \$ \$ \$ \$ \$ 1,817.69 \$ \$ \$ \$ \$ \$ \$ 1,817.69 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 13,177,814.34 - - - - - - - - -	147 \$ 147 \$ 147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel 1350m per reel / Average Haul Prepare Pull site	Towers - 3633.0 kcmil 110/7 Activers	each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ 89,645.00 \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 1,905.50 \$ \$ \$ 6,555.42 \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ \$ 1,817.69 \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 59,778.85 \$	- 13,177,814.34 - - - - - - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Towers - 3633.0 kcmil 110/7 Acstration Wers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Towers - 3633.0 kcmil 110/7 Acstration Wers - 3633.0 kcmil 110/7 Acstration Wers - 3633.0 kcmil 110/7 A	each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	ture count: clete for both poles Assume 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 10 36 11 34 0 1 9 10 36 11	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70 1.98 10.00	\$ 405.51 \$ 1,905.50 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 86,555.42 \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 59,778.85 \$ \$ 59,778.85 \$ \$ - \$ \$	- - - - - - - - - - - - - - - - - - -	147 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100%	Towers - 3633.0 kcmil 110/7 Arwers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockinstall Towers - 3633.0 kcmil 110/7 ACSF Haul distance = Wire Hauling Pull Site Prep Rock Foundations	each each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	ture count: lete for both poles Assume 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 10 36 11 34 0 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70 1.98	\$ 405.51 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,282.13	\$ 1,905.50 \$ \$ - \$ \$ 89,645.00 \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 73,063.04 \$ \$ - \$ \$ 86,555.42 \$ \$ \$ 5,020.56 \$ \$ 4,748.63 \$ \$ 1,817.69 \$ \$ 59,778.85 \$ \$ 1,817.69 \$ \$ 59,778.85 \$ \$ 1,905.50 \$	- - - - - - - - - - - - - - - - - - -	147 \$ 147 \$ 147 \$ 3 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Towers - 3633.0 kcmil 110/7 Acservers - 3633.0 kcmil 110/7 Acs	each each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34 0 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70 1.98 10.00	\$ 405.51 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 1,905.50 \$ \$ \$ 89,645.00 \$.	- 13,177,814.34 - - - - - - - - - - - - - - - - - - -	147 \$ 147 \$ 147 \$ 3 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Towers - 3633.0 kcmil 110/7 Acservers - 3633.0 kcmil 110/7 Acs	each each each each each CSR Total struct CONDUCTOR, COMP 400 km each each each each each each each each	ture count: clete for both poles Assume 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 10 36 11 34 0 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70 1.98 10.00	\$ 405.51 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	\$ 1,905.50 \$ \$ \$ 89,645.00 \$	- 13,177,814.34	147 \$ 147 \$ 147 \$ 3 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	1,905.50 - 89,645.00 86,555.42			
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel S3-E4 S3 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel S4-E4 S4 - Installation of Conductor on Steel To 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Towers - 3633.0 kcmil 110/7 Acservers - 3633.0 kcmil 110/7 Acs	each each each each each CSR Total struct Conductor, comp 400 km each each each each each each each each	147 147 147 147 147 147 147 147 147 147	0 9 10 36 11 34 0 10 36 11 34	KM .9 km/day 12.38 3.70 1.98 12.22 1.00 KM .1 km/day 12.38 3.70 1.98 10.00	\$ 405.51 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ -	\$ 1,905.50 \$ \$ \$ 89,645.00 \$.	- 13,177,814.34 - - - - - - - - - - - - - - - - - - -	147 \$ 147 \$ 147 \$ 3 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	1,905.50 - 89,645.00 86,555.42			



NALCOR 350 kV HVdc Line Construction	Front i (Labrador)		Linite		Llaure	Crew Cost							Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		hours and Materials	Total Materials
S5-E4 S5 - Installation of Conductor on Steel T	owers - 3633 0 kemil 110/7 AC	SD Total struct	ure count:	0	KM		\$	-	\$	66,229.94	¢	- \$	66,229.94	•
S5-E4 S5 - Installation of Conductor on Steel Town				U	LZIVI		•	•	Ф	00,225.54	Ψ	Ψ	00,223.34	Ψ
1350m per reel / Average h		-	Assume	1	.2 km/day									
Haul ,	Wire Hauling	each	0	9	7.30	\$ 405.51	2,960.84 \$	-	0 \$	-				
Prepare Pull site	Pull Site Prep	each	0	10	3.70	\$ 1,282.13		-	0 \$	-				
nstall Rock anchor for pull site 100%	Rock Foundations	each	0	36	1.98	\$ 920.20 \$		-	0 \$	=				
Pull In Conductor & Sag	Stringing	each	0	11	9.17	\$ 5,977.88		-	0 \$	-				
		each	0	2.1	1.00	\$ - \$			0 \$	-				
Sock installation by Helicopter	HeliSockInstall	each	0	34	1.00	\$ 1,905.50	, ,	-	0 \$	-				
						3	66,229.94 \$	-	\$	-				
S1-E5 Installation of Conductor on Steel Towe	re - 1102 5 komil 5//10 ACSP	Total struct	ure count:	285	KM			10,375,749.12	\$	36,406.14	¢	- \$	36,406.14	¢
S1-E5 Installation of Conductor on Steel Towers -					KW			10,515,145.12	Ψ	30,400.14	Ψ	- Ψ	30,400.14	Ψ
1800m per reel / Average h		,	Assume		.8 km/day									
Haul	Wire Hauling	each	285	9	3.69	\$ 405.51	1,496.51 \$	426,506.45	285 \$	1,496.51				
Prepare Pull site	Pull Site Prep	each	285	10	2.50	\$ 1,282.13			285 \$	3,205.33				
Pull In Conductor & Sag	•	each	285			\$ - \$		-	285 \$	-				
nstall Rock anchor for pull site 66%	Rock Foundations	each	285	36	1.47	\$ 920.20		384,645.17	285 \$	1,349.63				
Pull In Conductor & Sag	Electrode Slack String	each	285	47	6.11	\$ 4,655. 32 \$		8,108,011.69	285 \$	28,449.16				
Splicing Time for DE Crew		each	285			\$ - \$,	<u> </u>	285 \$	-				
Sock installation by Helicopter	HeliSockInstall	each	285	34	1.00	\$ 1,905. 50		543,067.50	285 \$	1,905.50				
		each	285			\$ - 9			285 \$	-				
		each	285				- \$	-	285 \$	-				
		each	285 285			\$ - 9		-	285 \$ 285 \$	=				
						\$ - \$	- \$	-	/X51.%	=.				
S1-E6 Installation of Conductor on Steel Towers		Total struct	ure count:	99	KM		36,406.14 \$			36,406.14 52,402.27	\$	- \$	52,402.27	\$
	1590.0 kcmil 54/19 ACSR Falco	Total struct	ure count: mplete for both electors Assume	ctrodes	KM	\$	36,406.14 \$	10,375,749.12 5,187,824.58	\$	36,406.14	\$	- \$	52,402.27	\$
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average H Haul	1590.0 kcmil 54/19 ACSR Falco	Total struct n Conductor, co 700 km each	ure count: mplete for both electors Assume	ctrodes 1	.3 km/day	\$ 405.51 \$	\$ 36,406.14 \$ \$ \$ \$ 6 ,082.60 \$	10,375,749.12 5,187,824.58 602,177.87	\$ \$	36,406.14 52,402.27 6,082.60	\$	- \$	52,402.27	\$
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average H Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7	Total struct n Conductor, co 700 km each each	rure count: mplete for both electors assume 99 99	ctrodes 1	.3 km/day	\$ 405.51 \$ 1,282.13 \$	\$ 36,406.14 \$ \$ \$ \$ 6 6,082.60 \$ 3,205.33 \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41	\$ \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33	\$	- \$	52,402.27	\$
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average H Haul Prepare Pull site Pull In Conductor & Sag	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep	Total struct n Conductor, co 700 km each each each	mure count: mplete for both electors Assume 99 99 99	otrodes 1 9 10	.3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ 5 - \$	\$ 36,406.14 \$ \$ \$ 6 6,082.60 \$ 6 3,205.33 \$ 6 - \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41	\$ \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33	\$	- \$	52,402.27	\$
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100%	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hading Pull Site Prep Rock Foundations	Total struct n Conductor, co 700 km each each each each	mure count: mplete for both electors Assume 99 99 99 99	9 10 36	.3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20 \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96	\$ \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69	\$	- \$	52,402.27	\$
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep	Total struct n Conductor, co 700 km each each each each each	mure count: mplete for both electors Assume 99 99 99 99 99	otrodes 1 9 10	.3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20 \$ 4,655.32 \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84	\$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15	\$	- \$	52,402.27	\$
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Electrode Stack String	Total struct n Conductor, co 700 km each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99	9 10 36 47	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ 5 - \$ 920.20 \$ 4,655.32 \$ 5 - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15	\$	- \$	52,402.27	\$
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hading Pull Site Prep Rock Foundations	Total struct n Conductor, co 700 km each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99	9 10 36	.3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ 4,655.32 \$ \$ 1,905.50 \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15	\$	- \$	52,402.27	\$
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Electrode Stack String	Total struct n Conductor, co 700 km each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99	9 10 36 47	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20 \$ 4,655.32 \$ - \$ \$ 1,905.50 \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50	\$	- \$	52,402.27	\$
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Electrode Stack String	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99	9 10 36 47	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ 5 - \$ 920.20 \$ 4,655.32 \$ 5 - \$ 5 1,905.50 \$ 5 - \$ 5	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50	\$	- \$	52,402.27	\$
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Electrode Stack String	Total struct n Conductor, co 700 km each each each each each each each eac	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99	9 10 36 47	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ 4,655.32 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50	\$	- \$	52,402.27	\$
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average h Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Electrode Stack String	Total struct n Conductor, co 700 km each each each each each each each eac	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99	9 10 36 47	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ 4,655.32 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84 - 188,644.50	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50	\$	- \$	52,402.27	\$
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average H- Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 99	9 10 36 47 34	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50 5,187,824.58	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27				
61-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hading Pull Site Prep Rock Foundations Electrode Slack String HellSockInstall Ss - 1192.5 kcmil 54/19 ACSR	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both electors assume 99 99 99 99 99 99 99 99 99 99 99 99 9	19 10 36 47 34	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50		- \$		
81-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter 81-E7 Installation of Conductor on Wood Poles 61-E7 Installation of Conductor on Wood Poles -	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hading Pull Site Prep Rock Foundations Electrode Slack String HellSockinstall S - 1192.5 kcmil 54/19 ACSR 1192.5 kcmil 54/19 ACSR Grackl	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both electors assume 99 99 99 99 99 99 99 99 99 99 99 99 9	19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50 5,187,824.58	99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average H	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Electrode Slack String HeliSockInstall S - 1192.5 kcmil 54/19 ACSR 1192.5 kcmil 54/19 ACSR GrackI Haul distance = 6	Total struct n Conductor, co 700 km each each each each each each each each	mure count: mplete for both electors Assume 99 99 99 99 99 99 99 99 99 99 99 99 9	18 otrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50 - 5,187,824.58 507,568.37	\$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 9	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hading Pull Site Prep Rock Foundations Electrode Slack String HellSockinstall S - 1192.5 kcmil 54/19 ACSR 1192.5 kcmil 54/19 ACSR Grackl Haul distance = 6 Wire Hading	Total struct n Conductor, co 700 km each each each each each each each each	mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 99 9	18 otrodes 19 10 36 47 34	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day	\$ 405.51 \$ 1,282.13 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 - 179,950.96 3,899,723.84 - 188,644.50 - 5,187,824.58 507,568.37	\$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Bock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 99 10 10 10 10 10 10 10 10 10 10 10 10 10	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 4,655.32 \$ 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84 188,644.50 5,187,824.58 507,568.37	\$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$	36,406.14 52,402.27 6,082.60 3,205.33 1,817.69 39,391.15 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance = 7 Wire Hading Pull Site Prep Rock Foundations Electrode Slack String HellSockinstall S - 1192.5 kcmil 54/19 ACSR 1192.5 kcmil 54/19 ACSR Grackl Haul distance = 6 Wire Hading	Total struct n Conductor, co 700 km each each each each each each each each	sure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 10 10 10 10 10 10 10 10 10 10 10 10 10	18 otrodes 19 10 36 47 34	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ 4,655.32 \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84 - 188,644.50 - 5,187,824.58 507,568.37	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
B1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Bock installation by Helicopter B1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 10 99 99 10 10 10 10 10 10 10 10 10 10 10 10 10	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 4,655.32 \$ 5 - 9 \$ 1,905.50 \$ 5 - 9 \$ 1,905.50 \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9 \$ \$ 5 - 9	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84 - 188,644.50 - 5,187,824.58 507,568.37 127,445.05 57,695.89 322,427.43	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles S1-E7 Installation of Conductor on Wood Poles -	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 10 10 10 10 10 10 10 10 10 10 10 10 10	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ - \$ \$ \$ - \$ \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84 - 188,644.50 - 5,187,824.58 507,568.37	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	rure count: mplete for both elect Assume 99 99 99 99 99 99 99 99 99 99 99 10 99 99 10 10 10 10 10 10 10 10 10 10 10 10 10	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 4,655.32 \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
B1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Bock installation by Helicopter B1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	### Count: ### mplete for both elect ### Assume 99	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 4,655.32 \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ 2,442.63 \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950,9 3,899,723.84 188,644.50 5,187,824.58 507,568.37 127,445.05 57,695.89 322,427.43	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
B1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Bock installation by Helicopter B1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	### Count: ### mplete for both elect ### Assume 99	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 4,655.32 \$ 1,905.50 \$ \$. \$. \$. \$. \$. \$. \$. \$. \$.	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41 179,950.96 3,899,723.84 188,644.50 5,187,824.58 507,568.37 127,445.05 57,695.89 322,427.43	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	### Count: ### mplete for both elect ### Assume 99	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 4,655.32 \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41	\$ \$ \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99 \$ 99	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				
S1-E6 Installation of Conductor on Steel Towers - 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 1800m per reel / Average Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falco Haul distance =	Total struct n Conductor, co 700 km each each each each each each each each	### Count: ### mplete for both elect ### Assume 99	18 ctrodes 18 ctrodes 19 10 36 47 34 18 ctrodes	.3 km/day 15.00 2.50 1.98 8.46 1.00 KM .5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 4,655.32 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	\$ 36,406.14 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,375,749.12 5,187,824.58 602,177.87 317,327.41	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	36,406.14 52,402.27 6,082.60 3,205.33 - 1,817.69 39,391.15 - 1,905.50 52,402.27 28,198.24 7,080.28 3,205.33 17,912.63				

NALCOR 350 kV HVdc Line Construction front 1R5p.xlsx
Valard Construction LP
Provided under NDA
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Payment	December 41 and		Units		Hours per			0	1.1		N 4 - 4 i - 1 -	Manhours and	T-4-1 M-4::-1-
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::E08	S1-E8 Installation of Conductor on Wood Poles - 1590.0 I	comil 54/19 ACSR	Total structure count:	0	KM			\$ -		\$ 30,954.03 \$		\$ 30,954.03	.
V	S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcm							•		ψ σο,σο ποσ ψ		Ψ 00,00 1100	
	1800m per reel / Average Haul distand		0 km Assume		3 km/day								
	Haul	Wire Hauling	each 0		17.46 \$	405.51 \$	7,080.28	\$ -	0				
	Prepare Pull site	Pull Site Prep	each C	10	2.50 \$	1,282.13		\$ -	0	\$ -			
	Slack Stringing	Wood Slack Stringing	each 0	50	8.46 \$	2,442.63 \$			0				
			each C		\$	¥		\$ -	0				
			each C		\$			\$ -	0				
			each C		\$			\$ -	0	*			
			each C		\$			\$ -	0				
			each 0		\$				0				
			Cacii		\$			\$ -	0				
			each C		\$			\$ - \$ -					
			eacri		Φ	- 3				\$ - \$ -			
						4	30,934.03	\$ -		φ -			
V::E09	S1-E9 Installation of ADSS on Wood Poles		Total structure count:	18	KM			\$ 219,014.23	3	\$ 12,167.46 \$	-	\$ 12,167.46	.
·05	S1-E9 Installation of ADSS on Wood Poles		Total of dotal o count.					210,014120		ψ 12,101110 ψ		Ψ 12,101110	•
	1.2 kg/m and	6680) kg / reel Assume	4	4 km/day								
	Haul	Wire Hauling	each 18		1.13 \$	405. 51 \$	456.20	\$ 8,211.52	2 18	\$ 456.20			
	Prepare Pull site	Pull Site Prep	each 18	10	3.15 \$	1,282.13							
	Pull In OPGW & Sag	OPGW Install	each 18	15	2.75 \$	2,790.88							
	-		each 18		\$	- \$	-	\$ -	18	\$ -			
			each 18		\$	- \$	-	\$ -	18				
			each 18		\$	- \$		\$ -	18				
			each 18		\$	- \$		\$ -	18				
			each 18		\$	- \$		\$ -	18				
			each 18		\$	4		\$ -	18				
			each 18		\$	- \$		\$ -	18				
			each 18		\$			\$ - \$ 219,014.23	18				
							12,107.40	\$ 219,014.2	<u>)</u>	\$ 12,167.46			
V::E10	S1-E10 ADSS splicing and tests including loss analysis		Total structure count:	6	EA			\$ 33,377.27	7	\$ 5,562.88 \$	_	\$ 5,562.88	l e _
VE10	S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis		Total Structure Count.	U	LA			φ 33,311.21		φ 3,302.00 φ		φ 5,302.00	-
	or Ero Aboo spiloting and tests including loss analysis												
	Assume number of splice points =	1	1 @ 24	Minutes/Fibre =	9.60 Ho	ours per 24 fibre splice							
	Haul and install Fibre Splice Box	Tie -in	each 6	12	4.00 \$	676.30 \$	3 2,705.21	\$ 16,231.24	1 6	\$ 2,705.21			
			each 6		\$	- \$	· -	\$ -	6				
	Splice and test Fibre	OPGW Splice	each 6	42	9.60 \$	297.67	2,857.67	\$ 17,146.03	3 6	\$ 2,857.67			
			each 6		\$	- \$	-	\$ -	6	\$ -			
			each 6		\$	- \$	-	\$ -	6				
			each 6	_	\$	*		\$ -	6	-			
			each 6	r a	\$	-		\$ -	6				
			each 6		\$			\$ -					
			each 6		\$			\$ -	6				
			each 6		\$			\$ -	6				
			each 6		\$			\$ -	6				
						\$	5,50∠.88	\$ 33,377.27		\$ 5,562.88			



	NALCOR 350 kV HVdc Line Construction Front 1	1 (Labrador)					Crew Cost						Total Unit Cost	
ment	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
11	S1-E11 ADSS end to end test S1-E11 ADSS end to end test		Total struct	ture count:	1	LS			\$ 7,144.18	•	7,144.18	-	\$ 7,144.18	\$
	Test	OPGW Splice	each	1	42	24.00	\$ 297.67	\$ 7,144.18	\$ 7,144.18	1 9	7,144.18			
			each	1				\$ -	\$ -	1 9				
			each each	11				\$ - \$ -	\$ - ¢	1 3				
			each	1					\$ - \$ -	1 3				
			each	1					\$ -	1 9				
			each	1			\$ -	\$ -	\$ -	1 9				
			each	1				\$ -		1 9				
			each each	11				\$ - \$	\$ - \$ -	1 9				
			each	1		 		\$ -		1 9				
				-		-		\$ 7,144.18			7,144.18			
2	S1-E12 S1 - Installation of OPGW S1-E12 S1 - Installation of OPGW		Total struct	ture count:	250	KM			\$ 3,795,294.14		15,181.18	-	\$ 15,181.18	\$
	1.2 kg/m and	66	880 kg / reel	Assume		5 km/day								
	Haul	Wire Hauling	each	250		1.83	\$ 405.51		\$ 185,052.79					
	Prepare Pull site	Pull Site Prep	each	250		3.15	\$ 1,282.13							
	Pull In OPGW & Sag	OPGW Install	each each	250 250		3.14	\$ 2,790.88	\$ 8,771.34 \$ -	\$ 2,192,835.36 \$ -	250 S	8,771.34			
			each	250		 		\$ -	\$ <u>-</u>	250 \$				
	Sock installation by Helicopter	HeliSockInstall	each	250		0.86	\$ 1,905.50		\$ 408,321.43		1,633.29			
			each	250			\$ -	\$ -	\$ -	250 \$				
			each	250				\$	\$ -	250 \$	=			
			each each	250 250				\$ -	\$ - \$ -	250 S	-			
			each	250				\$ -	\$ -	250 3				
								\$ 15,181.18	\$ 3,795,294.14		15,181.18			
-1	S2-E12 S2 - Installation of OPGW S2-E12 S2 - Installation of OPGW		Total struct	ture count:	165	KM			\$ 3,003,429.80		18,202.60	-	\$ 18,202.60	\$
	1.2 kg/m and												Ψ 10,202100	
		66	80 kg / reel	Assume		3 km/day							Ψ 10,202.00	
	Haul	Wire Hauling	each	165	9	5.00	\$ 405.51						¥ 10,202.00	
	Haul Prepare Pull site	Wire Hauling Pull Site Prep	each each	165 165	9 10	5.00 3.15	\$ 1,282.13	\$ 4,036.34	\$ 665,995.81	165	4,036.34		ψ 10,252.00	
	Haul	Wire Hauling	each each each	165 165 165	9 10 15	5.00	\$ 1,282.13 \$ 2,790.88	\$ 4,036.34 \$ 10,233.23	\$ 665,995.81 \$ 1,688,483.23	165 S	4,036.34 10,233.23		Ų 10, <u>101</u> 100	
	Haul Prepare Pull site	Wire Hauling Pull Site Prep	each each	165 165	9 10 15	5.00 3.15	\$ 1,282.13 \$ 2,790.88 \$ -	\$ 4,036.34	\$ 665,995.81	165	4,036.34 10,233.23		Ų 10, <u>101</u> 100	
	Haul Prepare Pull site	Wire Hauling Pull Site Prep	each each each each each each	165 165 165 165 165 165	9 10 15	5.00 3.15	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50	\$ 665,995.81 \$ 1,688,483.23 \$ -	165 \$ 165 \$	4,036.34 10,233.23 - - 1,905.50		V 10,202100	
	Haul Prepare Pull site Pull In OPGW & Sag	Wire Hauling Pull Site Prep OPGW Install	each each each each	165 165 165 165 165	9 10 15	5.00 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ -	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ - \$ 314,407.50 \$ -	165 \$ 165 \$	4,036.34 10,233.23 - - 1,905.50		Ų 10,202100	
·!-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW	Wire Hauling Pull Site Prep OPGW Install	each each each each each each	165 165 165 165 165 165 165	9 10 15	5.00 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ - \$ 314,407.50 \$ -	165 \$ 165 \$	4,036.34 10,233.23 - - 1,905.50 - 18,202.60	-	\$ 17,430.21	\$
-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW	Wire Hauling Pull Site Prep OPGW Install HeliSockinstall	each each each each each each each Total struct	165 165 165 165 165 165 165 165	9 10 15 34	5.00 3.15 3.67 1.00	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ - \$ 314,407.50 \$ - \$ 3,003,429.80	165 \$ 165 \$	4,036.34 10,233.23 - - 1,905.50 - 18,202.60	-		\$
-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and	Wire Hauling Pull Site Prep OPGW Install HellSockinstall	each each each each each each each cach each e	165 165 165 165 165 165 165 165 ture count:	9 10 15 34 0	5.00 3.15 3.67 1.00 KM	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ - \$ 314,407.50 \$ - \$ 3,003,429.80	165 S 165 S 165 S 165 S 165 S	4,036.34 10,233.23 - - 1,905.50 - 18,202.60 17,430.21	-		\$
2-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul	Wire Hauling Pull Site Prep OPGW Install HellSockInstall Wire Hauling	each each each each each each each Total struct	165 165 165 165 165 165 165 165	9 10 15 34 0	5.00 3.15 3.67 1.00 KM	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ - \$ 314,407.50 \$ - \$ 3,003,429.80 \$ -	165 \$ 165 \$	4,036.34 10,233.23 - - 1,905.50 - 18,202.60 17,430.21	-		\$
-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and	Wire Hauling Pull Site Prep OPGW Install HellSockinstall	each each each each each each each each	165 165 165 165 165 165 165 165 ture count:	9 10 15 34 0 39	5.00 3.15 3.67 1.00 KM	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ - \$ 18,202.60 \$ 1,255.14 \$ 4,036.34	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ - \$ 314,407.50 \$ - \$ 3,003,429.80 \$ -	165 \$ 165 \$	4,036.34 10,233.23 - 1,905.50 - 18,202.60 17,430.21	-		\$
!-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul Prepare Pull site	Wire Hauling Pull Site Prep OPGW Install HellSockinstall Wire Hauling Pull Site Prep	each each each each each each each each	165 165 165 165 165 165 165 165 ture count: Assume 0 0 0	9 10 15 34 0 34 0 39 10 15	5.00 3.15 3.67 1.00 KM 3 km/day 3.10 3.15	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 2,790.88 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ - \$ 18,202.60 \$ 1,255.14 \$ 4,036.34 \$ 10,233.23 \$ -	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ 314,407.50 \$ 3,003,429.80 \$ - \$ -	165 \$ 165 \$	4,036.34 10,233.23 - 1,905.50 - 18,202.60 17,430.21	-		\$
-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul Prepare Pull site Pull In OPGW & Sag	Wire Hauling Pull Site Prep OPGW Install HellSockinstall Wire Hauling Pull Site Prep	each each each each each each each each	165 165 165 165 165 165 165 165 165 165	9 10 15 34 0 39 10 15	5.00 3.15 3.67 1.00 KM 3 km/day 3.10 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 2,790.88 \$ - \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ - \$ 18,202.60 \$ 1,255.14 \$ 4,036.34 \$ 10,233.23 \$ - \$ -	\$ 665,995.81 \$ 1,688,483.23 \$ - \$ 314,407.50 \$ - \$ 3,003,429.80 \$ - \$ - \$ - \$ - \$ - \$ -	165 \$ 165 \$	4,036.34 10,233.23 - 1,905.50 - 18,202.60 17,430.21	-		\$
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NALCOR 350 kV HVdc Line Const	ruction Front 1 (Labrador)				Crew Cost						Total Unit Cost	
Description		Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S4-E12 S4 - Installation of OPGW		Total structure count:	0	KM		\$	-		\$ 17,430.21 \$	-	\$ 17,430.21	\$
S4-E12 S4 - Installation of OPGW	1.2 kg/m and	6680 kg / reel Assume		3 km/day								
Haul	Wire Hauling		0 9	3.10	\$ 405.51	\$ 1,255.14 \$		0	\$ -			
Prepare Pull site	Pull Site Prep		0 10		\$ 1,282.13		-	0	\$ -			
Pull In OPGW & Sag	OPGW Install	each	0 15			\$ 10,233.23 \$		0				
			0			\$ - \$	_	0				
		each	0			\$ - \$		0				
Sock installation by Helicopter	HeliSockInstall	each	0 34	1.00	\$ 1,905.50	\$ 1,905.50 \$		0				
		each	0		\$ -	\$ - \$	-	0	\$ -			
		each	0		\$ -	\$ - \$	-	0	\$ -			
		each	0		\$ -	\$ - \$		0				
		each	0		-	\$ - \$	-	0	\$			
						\$ 17,430.21 \$			\$ -			
S5-E12 S5 - Installation of OPGW		Total structure count:	0	KM		\$	-		\$ 16,915.28 \$	-	\$ 16,915.28	\$
S5-E12 S5 - Installation of OPGW												
Haul	1.2 kg/m and	6680 kg / reel Assume	0 9	km/day	\$ 405.51	\$ 740.21 \\$		1 0	<u>e</u>			
Prepare Pull site	Wire Hauling	040.1	0 10		\$ 405. 51 \$ 1,282. 13			0				
Pull In OPGW & Sag	Pull Site Prep	each	0 15	3.15	\$ 1,282.13		-	0				
I dil III OF GW & Gay	OPGW Install	each	0	3.07		\$ 10,233.23 \$	-	0				
		each	0			\$ - \$	-	0				
Sock installation by Helicopter	HeliSockInstall		0 34	1.00		\$ 1,905.50 \$	_	0				
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		each	0		\$ - \$ -	T		0				
		each	0			T		0 0	\$ -			
		each each	0			- \$	-	0	\$ -			
S1-E13 OPGW Continuity tests before a	and after stringing	each each	0	Ls		- \$ - \$		0	\$ - \$ -	_	\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an	nd after stringing	each each each Total structure count:	0			- \$ \$ - \$ \$ 16,915.28 \$	- - -	0	\$ - \$ - \$ -		\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an		each each each	0	Ls		\$ - \$ \$ - \$ \$ 16,915.28 \$	- - - - 474,373.41	0 0	\$ - \$ - \$ - \$ - \$ 237,186.71 \$		\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count:	2	LS 796.80	\$ 297.67	\$ - \$ \$ - \$ \$ 16,915.28 \$	- - -	0 0	\$ - \$ - \$ - \$ 237,186.71 \$		\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each Potal structure count: 83 each each each each	2	LS 796.80	\$ 297.6 7 \$	\$ - \$ \$ - \$ \$ 16,915.28 \$ \$ 237,186.71 \$	- - - 474,373.41 474,373.41	0 0	\$ - \$ - \$ - \$ 237,186.71 \$ \$ 237,186.71 \$ -	•	\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count: 83 each each each each	2 2 2 42 2	LS 796.80	\$ 297.6 7 \$ -	\$ - \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41	2 2 2 2 2	\$ - \$ - \$ - \$ 237,186.71 \$ \$ 237,186.71 \$ - \$ - \$ -	•	\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count: 83 each each each each each each each eac	2 2 2 2 2 2 2 2 2	796.80	\$ 297.67 \$ - \$ - \$ - \$ -	\$ - \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41	2 2 2 2 2 2 2	\$ - \$ - \$ - \$ 237,186.71 \$ \$ 237,186.71 \$ - \$ - \$ -	•	\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count: 83 each each each each each each each eac	2 2 2 2 2 2 2 2 2 2	796.80	\$ 297.67 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41	2 2 2 2 2 2 2 2 2	\$ - \$ - \$ - \$ 237,186.71 \$ \$ 237,186.71 \$ - \$ - \$ - \$ -	•	\$ 237,186.71	\$
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S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count: 83 each each each each each each each eac	2 2 2 2 2 2 2 2 2 2 2 2 2	796.80	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41 	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ - \$ - \$ \$ - \$ \$ \$ 237,186.71 \$ \$ \$ \$ - \$	•	\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count: 83 each each each each each each each eac	2 2 2 2 2 2 2 2 2 2	796.80	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41 - - - - - -	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ - \$ - \$ \$ 237,186.71 \$ \$ \$ 237,186.71 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	•	\$ 237,186.71	\$
S1-E13 OPGW Continuity tests before an Ass	nd after stringing sume number of reels =	each each each Total structure count: 83 each each each each each each each eac	2 2 2 2 2 2 2 2 2 2 2 2 2	796.80	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41 - - - - - -	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ - \$ - \$ \$ - \$ \$ \$ 237,186.71 \$ \$ \$ \$ - \$	•	\$ 237,186.71	\$
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S1-E13 OPGW Continuity tests before an Ass Test S1-E14 OPGW splicing and tests included and tests included and tests included and tests including and tests includin	and after stringing sume number of reels = OPGW Splice OPGW Splice \$ ding loss analysis ng loss analysis	each 8	2 2 42 2 2 2 2 2 2 2 2 2 2 2 2 2 2 9 42 9 9 9 9	EA 12.00 4.00	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 16,915.28 \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41 474,373.41 474,373.41 558,679.34 240,763.43 - 317,915.92	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 8 9 89 89 89 89 89 89	\$ - \$ - \$ - \$ \$ 237,186.71 \$ \$ \$ 237,186.71 \$ \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ 237,186.71 \$ \$ \$ 237,186.71 \$ \$ 6,277.30 \$ \$ \$ 2,705.21 \$ - \$ 3,572.09 \$ 5 - \$ 5			
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S1-E13 OPGW Continuity tests before an Ass Test S1-E14 OPGW splicing and tests include S1-E14 OPGW splicing and tests including Assume number of splice points = Haul and install Fibre Splice Box	and after stringing sume number of reels = OPGW Splice OPGW Splice \$ ding loss analysis ng loss analysis	each 8	2 2 42 2 2 2 2 2 2 2 2 2 2 2 2 2 2 9 42 9 9 9 9	EA 12.00 12.00	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 16,915.28 \$ \$ \$ 16,915.28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	474,373.41 474,373.41 474,373.41 474,373.41 558,679.34 240,763.43 - 317,915.92	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 8 9 89 89 89 89 89 89	\$ - \$ - \$ - \$ \$ 237,186.71 \$ \$ \$ 237,186.71 \$ \$ \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ 237,186.71 \$ \$ \$ 237,186.71 \$ \$ 6,277.30 \$ \$ \$ 2,705.21 \$ - \$ - \$ 5 - \$ - \$ 5 - \$ - \$ 5 - \$ - \$			



NALCOR 350 kV HVdc I	Line Construction Front 1 (Labrador)					Crew Cost				1		Total Unit Cost	
TV LEGGIT GGG RV TTV GG E	Elife Constitution 1 Tolle 1 (Eabladol)		Units		Hours per	Olew Oost						Manhours and	
Description			Total	Crew No.	•	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
C4 F4F ODCW and to and to		Total atrus	lura aquest.	2	LS			\$ 57,153.42		\$ 28,576.71	•	\$ 28,576.71	l œ
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S1-F Miscellaneous To	ower Attachments and Accessories (S1-Fx))											
S1-F1 Install 18" Aerial mark	* * * * * * * * * * * * * * * * * * * *	, Total struct	ture count:	15	EA			\$ 10,144.53		\$ 676.30	-	\$ 676.30	\$
S1-F1 Install 18" Aerial marke	er cones											•	
Haul and Install	Tie -in	each		5 12	1.00	\$ 676.30		\$ 10,14 <u>4.53</u>					
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	ting of Wood Poles (S1-Gx)	each each each		5 5 5	FA	\$ -	\$ - \$ - \$ 676.30	\$ - \$ - \$ 10,144.53	15 15	\$ - \$ - \$ 676.30	\$ 2300.00	\$ 7323.96	\$ 55 <i>4</i>
S1-G1 Framing and Setting of	ting of Wood Poles (S1-Gx) of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505	each each each	ture count:	5	EA	\$ -	\$ - \$ - \$ 676.30	\$ - \$ -	15 15	\$ - \$ -	\$ 2,300.00	\$ 7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of	of Single Pole Tangent (0 - 1 deg) as per Drawing	each each each	ture count:	5 5 5		\$ -	\$ - \$ - \$ 676.30	\$ - \$ - \$ 10,144.53 \$ 1,210,773.79	15 15	\$ - \$ - \$ 676.30 \$ 5,023.96	\$ 2,300.00	\$ 7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505	each each each Total struct 5573-4633-4ZDD	ture count: 0-0011	5 5 5 5	2.50	\$ -	\$ - \$ - \$ 676.30	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79	15 15 15 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60	\$ 2,300.00	\$ 7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket	each each each Total struct 5573-4633-4ZDE each each	ture count: 0-0011	241 11 1 11 48	2.50 2.00	\$ - \$ - \$ 441.04 \$ 710.52	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53	15 15 15 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04	\$ 2,300.00	7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	each each each Total struct 5573-4633-4ZDE each each each	ture count: 0-0011	241 11 1 11 48 11 49	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74	241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01	\$ 2,300.00	7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket	each each each Total struct 5573-4633-4ZDE each each each each	ture count: 0-0011	241 11 1 11 48 11 49 11 12	2.50 2.00	\$ - \$ - \$ 441.04 \$ 710.52	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72	241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30	\$ 2,300.00	7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	each each Fotal struct 5573-4633-4ZDD each each each each each each	24 24 24 24	241 241 11 1 48 11 49 11 12	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ -	241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ -	\$ 2,300.00	7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	each each Total struct 5573-4633-4ZDD each each each each each each each	24 24 24 24 24 24	241 241 11 1 48 11 49 11 12	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ -	241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ -	\$ 2,300.00	7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	each each each Fotal struct 5573-4633-4ZDD each each each each each each each eac	24 24 24 24 24 24 24 24 24 24 24	241 241 11	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ -	241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ -	\$ 2,300.00	7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	each each Total struct 5573-4633-4ZDD each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	241 241 11	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ -	241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ -	\$ 2,300.00	\$ 7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	each each each formal struct each each each each each each each eac	24 24 24 24 24 24 24 24 24 24 24	241 241 11	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ -	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ -	\$ 2,300.00	\$ 7,323.96	\$ 554
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Heatling Wood Assembly Wood Erection Tie-in	each each 5573-4633-4ZDE each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	241 241 11	2.50 2.00 1.50 1.00	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie-in	each each each each each each each each	24 24 24 24 24 24 24 24 24 24	241 241 1	2.50 2.00 1.50	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ -	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ -			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie-in of Single Pole Light angle (1 - 10 deg) with Guys a per Single Pole Light angle (1 - 10 deg) with Guys as per Drawing Single Pole Light angle (1 - 10 deg) with Guys Single Pole Light Angle Pole Light Angle Pole Light Angle Pole Light An	each each each each each each each each	24 24 24 24 24 24 24 24 24 24	241 241 1	2.50 2.00 1.50 1.00	\$ - \$ - \$ - \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Heading Wood Assembly Wood Erection Tie-in of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing 505 d V brace. Wire assembly on extension bracket. One see the single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One see the single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One see the single Pole Light angle (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One see the single Pole Light angle (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 - 10 deg) with Guys as per Drawing 10 deg (1 -	each each each each each each each each	24 24 24 24 24 24 24 24 24 27 24 27 24 27 24 27 24 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	241 241 11	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77	241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Healing Wood Assembly Wood Erection Tie-in of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing 505 d V brace. Wire assembly on extension bracket. One see the standard of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One see the standard of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One see the standard of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One see the standard of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing to the standard of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket.	each each each each each each each each	24 22 24 24 24 24 24 27 24 27 24 27 27 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	241 241 11	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie-in of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing 505 d V brace. Wire assembly on extension bracket. One seed to be seemed by the Guys as per Drawing 505 d V brace. Wire assembly on extension bracket. One seemed 505 d V brace. Wire assembly on extension bracket. One seemed 505 d V brace.	each each each 5573-4633-4ZDE each each each each each each each each	ture count: 0-0011 24 24 24 24 24 24 24 27 24 27 24 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	241 241 11	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77 \$ 14,333.86 \$ 18,473.57	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tile -in of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket.	each each each 5573-4633-4ZDE each each each each each each each each	24 24 24 24 24 24 24 27 24 27 24 27 24 27 27 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	241 241 11	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ - \$ 1,210,773.79 \$ 14,333.86 \$ 18,473.57 \$ 23,712.09	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Anchoring	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Eredion Tie in of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace.	each each each 5573-4633-4ZDE each each each each each each each each	24 24 24 24 24 24 24 27 24 27 24 27 24 27 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	241 241 11	2.50 2.00 1.50 1.00 EA	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77 \$ 14,333.86 \$ 18,473.57 \$ 23,712.09 \$ 36,360.32	241 241 241 241 241 241 241 241 241 241	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tile -in of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket.	each each each each Foral struct Foral struct Foral each each each each each each each each	24 24 24 24 24 24 24 24 24 27 24 27 24 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	241 241 11	2.50 2.00 1.50 1.00 EA	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ 699.24 \$ 676.30	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77 \$ 14,333.86 \$ 18,473.57 \$ 23,712.09 \$ 8,791.92	15 15 15 15 241 241 241 241 241 241 241 241 241 31 31 31 31 31 31 31 31 31	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Anchoring	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Eredion Tie in of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace.	each each each 5573-4633-4ZDE each each each each each each each each	24 24 24 24 24 24 24 26 27 24 27 24 27 28 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	241 241 11	2.50 2.00 1.50 1.00 EA	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ 699.24 \$ 676.30	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ - \$ 5,023.96 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77 \$ 14,333.86 \$ 18,473.57 \$ 23,712.09 \$ 36,360.32	15 15 15 15 15 241 241 241 241 241 241 241 241 241 3 3 13 13 13 13 13	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 5,023.96			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Anchoring	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Eredion Tie in of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace.	each each each 5573-4633-4ZDE each each each each each each each eac	ture count: D-0011 24 24 24 29 29 20 24 24 27 24 27 24 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	241 241 11	2.50 2.00 1.50 1.00 EA	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ 699.24 \$ 676.30 \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ 5,023.96 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ -	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77 \$ 14,333.86 \$ 18,473.57 \$ 23,712.09 \$ 36,360.32 \$ 8,791.92	15 15 15 15 15 241 241 241 241 241 241 241 241 241 3 3 13 13 13 13 13 13	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ 5,023.96			
S1-G1 Framing and Setting of S1-G1 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Tie in S1-G2 Framing and Setting of S1-G2 Framing and Setting of Wood pole with crossarm and Haul Frame the Structure Set Anchoring	of Single Pole Tangent (0 - 1 deg) as per Drawing of Single Pole Tangent (0 - 1 deg) as per Drawing 505 d V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Eredion Tie in of Single Pole Light angle (1 - 10 deg) with Guys as per d V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace. Wire assembly on extension bracket. One seed V brace.	each each each 5573-4633-4ZDE each each each each each each each each	ture count: D-0011 24 24 24 24 24 24 26 26 27 26 27 26 27 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	241 241 11	2.50 2.00 1.50 1.00 EA	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ - \$ 10,144.53 \$ 1,210,773.79 \$ 265,727.79 \$ 342,471.53 \$ 439,585.74 \$ 162,988.72 \$ - \$ - \$ - \$ 1,210,773.79 \$ 101,671.77 \$ 14,333.86 \$ 18,473.57 \$ 23,712.09 \$ 36,360.32 \$ 8,791.92 \$ -	15 15 15 15 15 241 241 241 241 241 241 241 241 241 3 3 13 13 13 13 13	\$ - \$ 676.30 \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 7,820.91 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ 5,023.96			



NALCOR 350 KV HVac Line Con	struction Front 1 (Labrador)		11.9		<u> </u>	Crew Cost						Total Unit Cost		
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
C4 C2 Framing and Cattle and C	Pole Heavy and (40, 20 de 2) and 2	- Total atmi-t		7	EA		\$	118,455.89	\$	16,922.27	2 200 00	\$ 19,222,27		_
	Pole Heavy angle (10 - 30 deg) with Guy ole Heavy angle (10 - 30 deg) with Guys as				_ EA		•	118,455.89	Þ	16,922.27	2,300.00	\$ 19,222.21)	1
Wood pole Heavy angle 4 anchors, as														
Haul	Hauling	each	7	1	2.50	\$ 441.04 \$	1,102.60 \$	7,718.23	7 \$	1,102.60				
Frame the Structure	Wood Assembly	each	7	48	3.00	\$ 710.52 \$	2,131.57 \$	14,920.96	7 \$	2,131.57				
Set	Wood Erection	each	7	49	1.50	\$ 1,216.00 \$	1,824.01 \$	12,768.05	7 \$	1,824.01				
Anchoring	Anchor Crew	each	7	35	16.00	\$ 699.24 \$	11,187.79 \$	78,314.53	7 \$	11,187.79				
Tie in	Tie -in	each	7	12	1.00	\$ 676.30 \$	676.30 \$	4,734.11	7 \$	676.30				
		each	7			\$ - \$	- \$	-	7 \$	-				
		each	7			\$ - \$	- \$	-	7 \$	-				
		each	7			\$ - \$	- \$	-	7 \$	-				
		each	7			\$ - \$	- \$		7 \$	-				
						\$	16,922.27 \$	118,455.89	\$	16,922.27				
	Pole Dead-end (30 - 90 deg) with Guys a			11	EA		\$	355,057.74	\$	32,277.98	2,300.00	\$ 34,577.98	\$	2
S1-G4 Framing and Setting of Single P	ole Dead-end (30 - 90 deg) with Guys as p	er Drawing 50557	73-4633-4ZDD-00	21										
Single pole DE 90 degree, 6 anchors, ji	umpers on extension bracket	 												
Haul	Hauling	each	11		2.50	\$ 441.04 \$	1,102.60 \$	12,128.65		1,102.60				
Frame the Structure	Wood Assembly	each	11		6.00	\$ 710. 52 \$				4,263.13				
Set	Wood Erection	each	11		1.50	\$ 1,216.00 \$		20,064.08		1,824.01				
Anchoring	Anchor Crew	each	11		24.00	\$ 699.24 \$		184,598.54		16,781.69				
Dead end	Deadends	each	11		6.00	\$ 1,384.42 \$	8,306.55 \$	91,372.03		8,306.55				
		each	11			\$ - \$	- \$		11 \$	-				
		each	11			\$ - \$	- \$		11 \$	-				
		each	11			\$ - \$	- \$	-	11 \$	=				
		each each	11 11			\$ - \$ \$ - \$	- \$	-	11 \$	-				
					<u> </u>		-		11 \$					
		each	11			\$ - \$	32,277.98	355,057.74	11 \$	32,277.98				
	Pole Floating Dead-end (0 - 1 deg) with	each Total struct	11 ure count:	9	EA	\$ - \$	- \$	-	11 \$	-	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P	Pole Floating Dead-end (0 - 1 deg) with ole Floating Dead-end (0 - 1 deg) with Guy	each Total struct	11 ure count:	9	EA	\$ - \$	32,277.98	355,057.74	11 \$	32,277.98	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors		each Total structors as per Drawing	11 ure count: 505573-4633-4Z	9 DD-0013		\$ - \$	- \$ 32,277.98 \$	355,057.74 189,811.68	11 \$	32,277.98 21,090.19	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul		each Total struct s as per Drawing each	11 ure count: 505573-4633-4Z	9 DD-0013	2.50	\$ - \$ \$ \$	- \$ 32,277.98 \$	355,057.74 189,811.68 9,923.44	11 \$ \$ \$	- 32,277.98 21,090.19 \$	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure	ole Floating Dead-end (0 - 1 deg) with Guy	Total struct s as per Drawing each each	11 ure count: 505573-4633-4Z	9 DD-0013	2.50	\$ - \$ \$ \$ \$ 441.04 \$ 710.52 \$	- \$ 32,277.98 \$ \$ 1,102.60 \$ 4,263.13 \$	355,057.74 189,811.68 9,923.44 38,368.18	111 \$ \$ \$ 9 \$ 9 \$	21,090.19 \$ 1,102.60 4,263.13	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set	ole Floating Dead-end (0 - 1 deg) with Guy	Total struct s as per Drawing each each each	11 ure count: 505573-4633-4Z	9 DD-0013 1 48 49	2.50 6.00 1.50	\$ - \$ \$ \$ \$ 710.52 \$ \$ 1,216.00 \$	- \$ 32,277.98 \$ \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$	355,057.74 189,811.68 9,923.44 38,368.18 16,416.06	9 \$ 9 \$ 9 \$	- 32,277.98 21,090.19 \$ 1,102.60 4,263.13 1,824.01	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew	Total struct s as per Drawing each each each each	11 ure count: 505573-4633-4Z 9 9 9	9 DD-0013 1 48 49 35	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$	9,923.44 38,368.18 16,416.06 50,345.06	9 \$ 9 \$ 9 \$ 9 \$ 9 \$	- 32,277.98 21,090.19 \$ 1,102.60 4,263.13 1,824.01 5,593.90	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection	Total structs as per Drawing each each each each each each each	11 ure count: 505573-4633-4Z	9 DD-0013 1 48 49	2.50 6.00 1.50	\$ - \$ \$ \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew	Total structs as per Drawing each each each each each each each eac	11 ure count: 505573-4633-4Z 9 9 9 9	9 DD-0013 1 48 49 35	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	111 \$ \$ \$ \$ \$ \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew	Total structs as per Drawing each each each each each each each eac	9 9 9 9 9	9 DD-0013 1 48 49 35 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ -	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	111 \$ \$ \$ \$ \$ \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew	Total structs as per Drawing each each each each each each each eac	9 9 9 9 9	9 DD-0013 1 48 49 35 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ - \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	111 \$ \$ \$ \$ \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew	Total structs as per Drawing each each each each each each each eac	9 9 9 9 9	9 DD-0013 1 48 49 35 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ - \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	111 \$ \$ \$ \$ \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	ole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew	Total structs as per Drawing each each each each each each each eac	9 9 9 9 9	9 DD-0013 1 48 49 35 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ - \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	111 \$ \$ \$ \$ \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55	2,300.00	\$ 23,390.19	\$	2
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end	Hauling Hauling Wood Assembly Wood Erection Anchor Crew Deadends	each Total structs s as per Drawing each each each each each each each eac	11 ure count: 505573-4633-4Z 9 9 9 9 9 9 9	9 DD-0013 1 48 49 35 13	2.50 6.00 1.50 8.00 6.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19 \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$	- 32,277.98 21,090.19 1,102.60 4,263.13 1,824.01 5,593.90 8,306.55 - - - - 21,090.19				
S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two P	Hauling Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew Deadends	each Total structs s as per Drawing each each each each each each each eac	11 ure count: 1505573-4633-4Z 9 9 9 9 9 9 9 9 9 9 ure count:	9 DD-0013 1 48 49 35 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ - \$	9,923.44 38,368.18 16,416.06 50,345.06 74,758.93	9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$	1,102.60 4,263.13 1,824.01 5,593.90 8,306.55		\$ 23,390.19 \$ 41,995.88		
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S1-G5 Framing and Setting of Single P Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole Two pole DE 90 degree, 8 anchors, jun Haul Frame the Structure Set Anchoring	Pole Floating Dead-end (0 - 1 deg) with Guy Hauling Wood Assembly Wood Erection Anchor Crew Deadends Ole Dead-end to tap to HVdc Tower in e Dead-end to tap to HVdc Tower in Labraconpers on extension Hauling Wood Assembly	each Total struct s as per Drawing each each each each each each each eac	11 ure count: 1505573-4633-4Z 9 9 9 9 9 9 9 9 9 9 ure count:	9 DD-0013 1 48 49 35 13 1 ZDD-0061 1 48 49 35	2.50 6.00 1.50 8.00 6.00 EA	\$ 441.04 \$ 710.52 \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19 \$ 1,102.60 \$ 4,263.13 \$ 3,648.01 \$ 22,375.58 \$	355,057.74 189,811.68 9,923.44 38,368.18 16,416.06 50,345.06 74,758.93 189,811.68 39,695.88 1,102.60 4,263.13 3,648.01 22,375.58	111 \$ \$ \$ \$ \$ \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$	- 32,277.98 21,090.19 1,102.60 4,263.13 1,824.01 5,593.90 8,306.55 - - 21,090.19 39,695.88 1,102.60 4,263.13 3,648.01 22,375.58				
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	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
ent		Units			Hours per			0.1				Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-I Optional Pricing (S1-Ix) S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per Design	Total structure c n Drawings and Te	count:echnical Specific	2 cations	LS			\$ -		\$ -	\$ -	\$ -	\$
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	S1-I2 Design and supply of micropile option as replacement for H-pile design												
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S1-I15 Assembly and Installation	on of Foundation Type A3-1/1A, per kg, to be used fo	each Total struct r weight increa				\$ -	\$ - \$ \$ 1.67 \$	1.6 1.6	7 7	\$	1.67 1.67 \$		\$ 1	.67 \$
S1-I15 Assembly and Installa S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	each Total struct		17	0.00110	\$ - \$ - \$ 441.04 \$ 1,002.72	\$ - \$ \$ 1.67 \$ \$ \$	1.6 1.6	1 1 7 7 7 9 1 1	\$ \$	1.67 \$	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	on of Foundation Type A3-1/1A, per kg, to be used fo	each Total struct r weight increa				\$ -441.04 \$ 1,002.72	\$ - \$ \$ 1.67 \$ \$ \$ \$ 0.49 \$ \$ 1.18 \$	1.6 1.6	7 7 9 1 8 1	\$ \$ \$ \$	1.67 1.67 \$		\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	Total struct r weight increa each each		17	0.00110		\$ - \$ \$ 1.67 \$ \$ \$ 0.49 \$ \$ 1.18 \$	1.6 1.6 1.6 0.4	7 7 9 1 8 1 1	\$ \$ \$ \$ \$	1.67 \$ 0.49	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	Total struct r weight increa each each each		17	0.00110	-	\$ - \$ \$ 1.67 \$ \$ \$ 0.49 \$ \$ 1.18 \$ \$ - \$	1.6 1.6 0.4 1.1	7 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	Total struct r weight increa each each each each each		17	0.00110	\$ 1,002.72 \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 0.49 \$ \$ 1.18 \$ \$ - \$ \$ - \$	1.6 1.6 0.4 1.1	7 7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 -	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	r weight increase each each each each each each each		17 20	0.00110	\$ 1,002.72 \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 0.49 \$ \$ 1.18 \$ \$ - \$ \$ - \$	1.6 1.6 1.6 0.4 1.1	9 1 8 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	r weight increase each each each each each each each eac	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110	\$ 1,002.72 \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.4 1.6 0.4 1.1	9 1 8 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.4 1.6 0.4 1.1	9 1 8 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18	-	\$ 1	.67 \$
S1-I15 Assembly and Installation	ion of Foundation Type A3-1/1A, per kg, to be used fo	r weight increar weight increar each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.4 1.6 0.4 1.1	9 1 8 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18	-	\$ 1	.67 \$
S1-I15 Assembly and Installation Haul Assemble	Foundation Type A3-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$	0.4 1.6 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	9 1 8 1 1 1 1 1 1 1 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - - - - - - 1.67			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation	Foundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation	r weight increa each each each each each each each e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.4 1.6 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	9 1 8 1 1 1 1 1 1 1 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - - - - - - 1.67	-		.67 \$.67 \$
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation	Foundation Type A3-1/1A, per kg, to be used fo	r weight increa each each each each each each each e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$	0.4 1.6 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	9 1 8 1 1 1 1 1 1 1 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - - - - - - 1.67			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each r weight increa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ \$ 1.18	1.6 1.6 1.6 1.1 1.1 1.1 1.6	9 1 8 1 1 1 1 1 1 1 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - - 1.67 1.67			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each r weight increa Total struct r weight increa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ 1.18 \$ \$ 1.	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	9 1 8 1 1 1 1 1 1 1 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - 1.67 1.67 1.67			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each r weight increa Total struct r weight increa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ 1.18 \$ \$ \$ 1.18 \$ 1.18 \$ \$ 1.18	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.67 \$ 0.49 1.18 -			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each r weight increa Total struct r weight increa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ 1.18 \$ \$ \$ \$ 1.18 \$	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - 1.67 1.67 1.67 1.67 1.67			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	1.6 1.6 1.6 0.4 1.1	7 7 7 9 1 1 1 1 1 1 1 1 7 7 7 7 9 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 - - - 1.67 1.67 1.67 1.67			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each each each each each each each each	ases or decreases 1 1 1 1 1 1 1 1 1 ture count: ases or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ - \$ \$ \$ 1.18 \$ \$ 5 - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ 5 - \$ \$ \$ 1.18 \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ \$	1.6 1.6 1.6 0.4 1.1	7 7 7 8 1 1 1 1 1 1 1 7 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 -			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	r weight increar weight increar weight each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ 1.67 \$ 1.67 \$ 1.67 \$ \$ 1.67	1.6 1.6 1.6 1.6 1.1 1.1	7 7 7 9 1 8 1 1 1 1 1 1 1 7 7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 -			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ 1.67 \$ 1.67 \$ \$ 1.67 \$	1.6 1.6 1.6 1.6 1.6 1.6 1.1 1.1 1.1 1.6 1.6	7 7 9 1 8 1 1 1 1 1 1 1 7 7 7 7 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 -			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each e	ases or decreases 1 1 1 1 1 1 1 1 1 ture count: ases or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ 1.18 \$ \$ 1.	1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.1 1.1 1.6 1.6	9 1 8 1 1 1 1 1 1 1 7 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18			
S1-I15 Assembly and Installation Haul Assemble S1-I16 Assembly and Installation S1-I16 Assembly and Installation	Poundation Type A3-1/1A, per kg, to be used fo Foundation Haul Grillage Installation ation of Foundation Type A4-1/1A, per kg, to be on of Foundation Type A4-1/1A, per kg, to be used fo Foundation Type A4-1/1A, per kg, to be used fo	each Total struct r weight increa each each each each each each each e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ 1.67 \$ \$ 1.67 \$ 1.67 \$ \$ 1.67 \$	- 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.1 1.1 1.6 1.6	9 1 8 1 1 1 1 1 1 1 7 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.67 \$ 0.49 1.18 -			



NALCOR 350 KV F	HVdc Line Construction Front 1 (Labrador)					Crew Cost							Total Unit C	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Co	ost	Materials	Manhours a Materia	
		<u>. </u>			_	,	_				•			
S1-I17 Assembly and	I Installation of Foundation Type B1-1/1A, per kg, to be Installation of Foundation Type B1-1/1A, per kg, to be used f	Total struct		1	KG		\$	1.3	89	\$	1.39 \$	-	\$	1.39 \$
ST-TIT ASSEMBLY and I	installation of Foundation Type B1-1/TA, per kg, to be used i	or weight increa	ases of decreases											
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04			1 1	\$	0.41			
Assemble	Grillage Installation	each	1	20	0.00098	\$ 1,002.72	\$ 0.98 \$	0.9	8 1	\$	0.98			
		each	1			\$ -	- 9	-		\$	-			
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		Cacii	'		l	Ψ -	\$ 1.39			\$	1.39			
										<u> </u>				
S1-I18 Assembly and	Installation of Foundation Type B2-1/1A, per kg, to be	Total struc		1	KG		9	1.6	57	\$	1.67 \$	-	\$	1.67 \$
S1-I18 Assembly and I	Installation of Foundation Type B2-1/1A, per kg, to be used f	or weight increa	ases or decreases		_									
[i		 		47	0.00440	444.044	0.40		10.1	I &	0.40			
Haul Assemble	Foundation Haul	each	1	17 20	0.00110	\$ 441.04			9 1	\$	0.49			
Assemble	Grillage Installation	each each		20	0.00118	\$ 1,002. 72	\$ 1.18 \$ \$ -			\$	1.18			
		each	1				\$ - 9	-		\$	-			
		each	1			\$ -	\$ - 9			\$	-			
		each	1			\$ -	\$ - 9		1	\$	-			
		each	1			\$ -	\$ - 9		1	\$	-			
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		each each	1			\$ -	\$ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-	1	\$ \$	1.67			
S1-I19 Assembly and	I Installation of Foundation Type C1-1, per kg, to be used	each Total struc	ture count:	1	KG	\$ -	\$ - 9	5 - 5 1.6	67	\$	-		\$	1.39 \$
S1-I19 Assembly and S1-I19 Assembly and I	I Installation of Foundation Type C1-1, per kg, to be used Installation of Foundation Type C1-1, per kg, to be used for v	each Total struc	ture count:	1	KG	\$ -	\$ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5 - 5 1.6	67	\$	1.67	-	\$	1.39 \$
S1-I19 Assembly and S1-I19 Assembly and I	I Installation of Foundation Type C1-1, per kg, to be used Installation of Foundation Type C1-1, per kg, to be used for N	each Total struc	ture count:	17	KG 0.00092	\$ -	\$ - \$ \$ 1.67 \$ \$	5 - 1.6 5 1.8 6 0.4	1 67 89	\$ \$	1.67 1.39 \$	-	\$	1.39 \$
S1-I19 Assembly and I	Installation of Foundation Type C1-1, per kg, to be used for v	each Total structure ight increases	ture count: s or decreases			\$ - \$ - \$ 441.04 \$ 1,002.72	\$ - \$ \$ 1.67 \$ \$ \$ 0.41 \$	5 - 5 1.6 6 1.3	39 39 41 1 1	\$ \$ \$ \$	1.67 1.39 \$		\$	1.39 \$
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			each	1			\$ -	\$ -	\$ -	1 \$	-			
			each	1			\$ -	\$ -	\$ -	1 \$	-			
			each	1			-	\$ -						
								\$ 1.39	\$ 1.39	\$	1.39			
												_	A 100	•
S1	I-I22 Assembly and Installation of Found	dation Type D2-1, per kg, to be used	Total struc	ture count:	1	KG			\$ 1.67	\$	1.67	-	\$ 1.67	\$
51	1-I22 Assembly and Installation of Foundati	lion Type D2-1, per kg, to be used for v	veigni increase	s or decreases										
На	aul	Foundation Haul	each	1	17	0.00110	\$ 441.04	\$ 0.49	\$ 0.49	1 \$	0.49			
	ssemble	Grillage Installation	each	1	20	0.00118	\$ 1,002.72		\$ 1.18		1.18			
			each	1				\$ -	\$ -	1 \$	-			
			each	1			\$ -	\$ -	\$ -	1 \$	-			
			each	1			\$ -	\$ -	\$	1 \$	-			
			each	1			\$ -	Ψ	\$ -		=			
							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ -	\$ -	1 \$	=			
			each	1			Ψ							
			each	1			\$ -	\$ -	\$ -	1 \$	-			
				<u> </u>			\$ -	\$ - \$ -	\$ - \$ -	1 \$ 1 \$	-			
			each	<u> </u>			\$ -	\$ -	\$ - \$ -	1 \$ 1 \$	-			
91	1-123 Assembly and Installation of Found	dation Type F1.1 per kg to be used	each each	1		KG	\$ -	\$ - \$ - \$ 1.67	\$ - \$ - \$ 1.67	1 \$ 1 \$ 7 \$	- - 1.67	¢ _	¢ 1.53	ı (¢
S1 S1	I-I23 Assembly and Installation of Found	dation Type E1-1, per kg, to be used	each each Total struc	ture count:		KG	\$ -	\$ - \$ - \$ 1.67	\$ - \$ -	1 \$ 1 \$ 7 \$	-	\$ -	\$ 1.53	\$ \$
S1 S1	I-I23 Assembly and Installation of Found I-I23 Assembly and Installation of Foundati	dation Type E1-1, per kg, to be used ion Type E1-1, per kg, to be used for w	each each Total struc	ture count:		KG	\$ -	\$ - \$ - \$ 1.67	\$ - \$ - \$ 1.67	1 \$ 1 \$ 7 \$	- - 1.67	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	dation Type E1-1, per kg, to be used ion Type E1-1, per kg, to be used for w	each each Total struc	ture count:	1 17	0.00101	\$ -	\$ - \$ 1.67	\$ - \$ - \$ 1.67 \$ 1.53	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.67 1.53	\$ -	\$ 1.53	\$ \$
S1 Ha	1-I23 Assembly and Installation of Foundati	tion Type E1-1, per kg, to be used for w	each each Total struc veight increases each each	ture count:	1		\$ -	\$ - \$ 1.67 \$ 0.45 \$ 1.08	\$ - \$ - \$ 1.67 \$ 1.53	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.67 1.53	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	Total structiveight increases each each each	ture count:	1 17	0.00101	\$ -	\$ - \$ 1.67 \$ 0.45 \$ 1.08 \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.67 1.53	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	Total struc veight increases each each each each each	ture count:	1 17	0.00101	\$ -	\$ - \$ 1.67 \$ 0.45 \$ 1.08 \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ -	1 S 1 S 5 S 5 1 S 3 1 S 1 S 1 S	1.67 1.53 0.45 1.08	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	each each Total struc veight increases each each each each each each	ture count:	1 17	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ -	\$ - \$ 1.67 \$ 0.45 \$ 1.08 \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ -	1 \$ 1 \$ 5 \$ \$ \$ \$ \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ \$ 1 \$	1.67 1.53 0.45 1.08	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	each each Total struc weight increase: each each each each each each each	ture count:	1 17	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ -	1 \$ 1 \$ 5 \$ \$ \$ \$ \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ \$ 1 \$	1.67 1.53 0.45 1.08	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	each each Total struc reight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ -	1 \$ 1 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.67 1.53 0.45 1.08 - - -	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	each each Total struc weight increases each each each each each each each eac	ture count:	1 17 20	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 3 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - -	\$ -	\$ 1.53	\$ \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	each each Total struc reight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 3 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - -	\$ -	\$ 1.53	3 \$
S1 Ha	I-I23 Assembly and Installation of Foundati	cion Type E1-1, per kg, to be used for w	each each Total struc weight increases each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 3 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - -	\$ -	\$ 1.53	3 \$
Ha As	I-I23 Assembly and Installation of Foundati aul ssemble	Foundation Haul Grillage Installation	each each Total struc veight increases each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - - - 1.53			
S1 Ha As	I-I23 Assembly and Installation of Foundati	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used	each each Total struc veight increases each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - -			\$ \$ 0 \$
S1 Ha As S1 S1	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used	each each Total struc veight increases each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101 0.00108	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - 1.53			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each Total struc veight increases each each each each each each each eac	ture count: s or decreases	1 17 20	0.00101 0.00108 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.39	1 \$ 1 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.67 1.53 0.45 1.08 - - - - - 1.53 1.39			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each Total struc veight increase: each each each each each each each eac	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 17 20	0.00101 0.00108	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.85 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$ 0.41 \$ 0.98	1 S 1 S 5 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - 1.53 1.39			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each Total struc veight increase: each each each each each each each eac	ture count: s or decreases	1 17 20 1 17 20	0.00101 0.00108 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.53	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ -	1 S 1 S 5 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - 1.53 1.39			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00101 0.00108 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.53 \$ 1.39	1 S 1 S 5 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - 1.53 1.39			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00101 0.00108 KG	\$ 441.04 \$	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$ 1.53 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - 1.53 1.39			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00101 0.00108 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 \$ - \$ 1.53 \$ 0.41 \$ 0.98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98 \$ - 98	1 S 1 S 5 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - 1.53 1.39			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00101 0.00108 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \ \$ 1.67 \$ 1.67 \$ 0.45 \$ 1.08 \$ - \	\$ - \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 S 1 S 5 S 5 1 S 6 1 S 7 S 8 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - 1.53 1.39 0.41 0.98 - - -			
S1 Ha As S1 S1 Ha	I-I23 Assembly and Installation of Foundati aul ssemble I-I24 Assembly and Installation of Found I-I24 Assembly and Installation of Foundati aul	Foundation Haul Foundation Haul Grillage Installation dation Type A1-2, per kg, to be used for w	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00101 0.00108 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.08 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.53 \$ 0.45 \$ 1.67 \$ 1.53 \$ 0.45 \$ 1.08 \$ - \$ - \$ - \$ \$ - \$ - \$ \$ 1.53 \$ 1.39	1 S 1 S 5 S 5 S 5 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.67 1.53 0.45 1.08 - - - - - 1.53 1.39			



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)					Crew Cost						Total Unit Cost	
ayment em	Description		Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
:125	S1-I25 Assembly and Installation of Foundation Type A2-2, per kg, to S1-I25 Assembly and Installation of Foundation Type A2-2, per kg, to be u	be used Total structured for weight increases		1	KG		ı	\$ 1.67	\$	1.67	\$ -	\$ 1.67	-
	Haul Foundation Haul	each	1	17	0.00110	\$ 441.04	\$ 0.49	\$ 0.49	1 \$	0.49			
	Assemble Grillage Installation		1	20	0.00118	\$ 1,002.72				1.18			
		each	1	-		\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -		\$ -	1 \$	-			
		each	1			\$ -		\$ -	1 \$	-			
		each	1				-	\$ -	1 \$	-			
		each each	1			\$ -		\$ - \$ -	1 \$	-			
		eacii	<u> </u>			Т	\$ 1.67			1.67			
				_							•	A	
26	S1-I26 Assembly and Installation of Foundation Type A3-2, per kg, to S1-I26 Assembly and Installation of Foundation Type A3-2, per kg, to be u	be used Total structured for weight increases		1	KG			\$ 1.67	\$	1.67	\$ -	\$ 1.67	-
	Haul Foundation Haul	each	1	17	0.00110	\$ 441.04	\$ 0.49	\$ 0.49	1 \$	0.49			
	Assemble Grillage Installation		1	20	0.00118	\$ 1,002.72				1.18			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each each	1			Ф -	\$ - \$ -	\$ - \$ -	1 \$	-			
		Cacii	<u>'</u>			- Ψ	\$ 1.67	•		1.67			
	S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be u	sed for weight increases		1	KG			\$ 1.67		1.67	\$ -	\$ 1.67	-
	Haul Foundation Haul	each	1	17	0.00110 0.00118	\$ 441.04		\$ 0.49 \$ 1.18	1 \$ 1 \$	0.49 1.18			
	Assemble Grillage Installation	each each	1	20	0.00118	\$ 1,002.72	\$ 1.18	\$ 1.10	1 \$	1.10			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	7 1			\$ -	\$ -	\$ -	1 \$	=			
		each				\$ -	\$ -	\$ -	1 \$	-			
		each	1			-	\$ -	\$ -	1 \$	-			
8	S1-I28 Assembly and Installation of Foundation Type B1-2, per kg, to	he used Total struct	ure count:	1	KG		\$ 1.67	\$ 1.67 \$ 1.39		1.67 1.39	\$ -	\$ 1.39	s _
	S1-I28 Assembly and Installation of Foundation Type B1-2, per kg, to be u	sed for weight increases	or decreases				'	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·	1100	•	4 1100	•
	Haul Foundation Haul	each	1		0.00092	\$ 441.04				0.41			
	Assemble Grillage Installation		1	20	0.00098	\$ 1,002.72		\$ 0.98	3 1 \$	0.98			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ - e	\$ -	\$ - e	1 \$	-			
		each each	1			\$ -	\$ - \$ -	\$ - \$ -	1 \$	-			
		each	1			\$ -	\$ -	\$ -	1 \$	-			
		each				\$ -	\$ -	\$ -	1 \$	-			
		each	1			\$ -		\$ -	1 \$				
		1 545.1					\$ 1.39	•		1.39			
								1.00					



NALCO	OR 350 kV HVdc Line Construction Fro	ont 1 (Labrador)					Crew Cost						Total Unit Cost	
t Descript	ntion			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Возопр	puon			Total	Clew No.	unit	Hourly Nate	Offit Cost	Cubtotai	Office	Offic Cost	Waterials	Waterlais	Total Materials
	Assembly and Installation of Foundation Ty				1	KG			\$ 1.67	\$	1.67	\$ -	\$ 1.67	7 \$
S1-I29 A	Assembly and Installation of Foundation Type	B2-2, per kg, to be used for v	veight increase	s or decreases										
Haul		Foundation Haul	each	1	17	0.00110	\$ 441.04	\$ 0.49	\$ 0.49	1 \$	0.49			
Assemb	ible	Grillage Installation	each	1	20	0.00118	\$ 1,002.72		\$ 1.18		1.18			
			each	1			\$ -	\$ -	\$ -	1 \$	-			
			each	1			\$ -	\$ -	\$ -	1 \$	-			
			each	1			\$ -		\$ -	1 \$	-			
			each	1			\$ -		\$ -		-			
			each	1			\$ -	· ·	\$ -	1 \$	-			
			each each	1			\$ -	\$ - \$ -		1 \$	=			
			eacn	<u> </u>			-	\$ 1.67			1.67			
								ψ 1.07	Ψ 1.07	Ψ	1.07			
S1-I30 A	Assembly and Installation of Foundation Ty	vpe C1-2. per ka. to be used	Total struc	ture count:	1	KG			\$ 1.39	\$	1.39	\$ -	\$ 1.39	\$
S1-I30 A	Assembly and Installation of Foundation Type	C1-2, per kg, to be used for v	veight increase			_						•		•
	•													
Haul		Foundation Haul	each	1	17	0.00092	\$ 441.04				0.41			
Assemb	ıble	Grillage Installation	each	1	20	0.00098	\$ 1,002.72		\$ 0.98		0.98			
			each	1			\$ -	\$ -	\$	1 \$	-			
			each	1			\$ -	\$ -	\$ -	1 \$	-			
			each each				ф -	\$ <u>-</u>	\$ - \$ -	1 \$	-			
			each	1			\$ -	· -	\$ -	1 \$	-			
						1	Ψ	Ψ	Ψ	ι ιιψ				
				1			\$ -	\$ -	\$ -	1 \$	-			
			each	1			\$ - \$ -	Ψ	Ψ	1 \$	-			
				1			\$ - \$ -		\$ -	1 \$	- - 1.39			
S4 124 /	Assembly and Installation of Foundation To	una C2 2 marker ta ha waad	each each	1		NO.	\$ -	\$ - \$ 1.39	\$ - \$ 1.39	1 \$	- 1.39	•	6 4.67	
S1-I31 A	Assembly and Installation of Foundation Type	ype C2-2, per kg, to be used	each each Total struc	ture count:	1	KG	\$ -	\$ - \$ 1.39	\$ -	1 \$	-	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Type	ype C2-2, per kg, to be used C2-2, per kg, to be used for v	each each Total struc	ture count:		кв	\$ -	\$ - \$ 1.39	\$ - \$ 1.39	1 \$	- 1.39	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase	ture count:			\$ -	\$ 1.39	\$ - \$ 1.39 \$ 1.67	1 \$	1.39 1.67	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	ype C2-2, per kg, to be used C2-2, per kg, to be used for v	each each Total struc	ture count:	1 17	KG 0.00110 0.00118	\$ - \$ - \$ 441.04 \$ 1,002.72	\$ - \$ 1.39	\$ - \$ 1.39 \$ 1.67	1 \$ \$ \$ 1 \$	- 1.39	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase	ture count:	1	0.00110	\$ - \$ - \$ 441.04 \$ 1,002.72 \$ -	\$ - \$ 1.39	\$ - \$ 1.39 \$ 1.67	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase each each	ture count:	1 17	0.00110		\$ 1.39 \$ 0.49 \$ 1.18	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase each each each each each each	ture count:	1 17	0.00110		\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase each each each each each each	ture count:	1 17	0.00110		\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ -	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 -	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase each each each each each each each ea	ture count:	1 17 20	0.00110		\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 - - -	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 - - -	\$ -	\$ 1.67	7 \$
S1-I31 A	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v	each each Total struc veight increase each each each each each each each ea	ture count: s or decreases	1 17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 - - -	\$ -	\$ 1.67	7 \$
S1-I31 A Haul Assemb	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage installation	each each Total struc weight increase each each each each each each each ea	ture count: s or decreases	1 17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.67 0.49 1.18 - - - - - - 1.67			
S1-I31 A Haul Assemb	Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used	each each Total struc weight increase each each each each each each each ea	ture count: s or decreases	1 17 20	0.00110	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 - - -			7 \$ 9 \$
S1-I31 A Haul Assemb	Assembly and Installation of Foundation Type ible Assembly and Installation of Foundation Ty	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used	each each Total struc weight increase each each each each each each each ea	ture count: s or decreases	1 17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.67 0.49 1.18 - - - - - - 1.67			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used	each each Total struc weight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.39	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.67 0.49 1.18 - - - - 1.67 1.39			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	Foundation Haul Grillage Installation ype D1-2, per kg, to be used for v	each each rotal struc veight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00110 0.00118	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 1.67 1.67			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used D1-2, per kg, to be used for v Foundation Haul	each each veight increase: each each each each each each each eac	ture count: s or decreases	1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.39 \$ 0.41 \$ 0.98 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.67 0.49 1.18 - - - - 1.67 1.39			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used D1-2, per kg, to be used for v Foundation Haul	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 1.67 1.67 1.39			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used D1-2, per kg, to be used for v Foundation Haul	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.39	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 1.67 1.39			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used D1-2, per kg, to be used for v Foundation Haul	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 1.67 1.39 0.41 0.98			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used D1-2, per kg, to be used for v Foundation Haul	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.67 0.49 1.18			
S1-I31 A Haul Assemb S1-I32 A S1-I32 A	Assembly and Installation of Foundation Type Assembly and Installation of Foundation Ty Assembly and Installation of Foundation Type	C2-2, per kg, to be used for v Foundation Haul Grillage Installation ype D1-2, per kg, to be used D1-2, per kg, to be used for v Foundation Haul	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 17 20	0.00110 0.00118 KG	\$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.39	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 1.67 0.49 1.18 1.67 1.39 0.41 0.98			



NALCOR 350 kV HV	dc Line Construction Front 1 (Labrador)		Linita		Hauss	Crew Cost							Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost		Materials	Manhours and Materials	Total Materials
		-			1/0			^	_	•	07 4		4.07	
	nstallation of Foundation Type D2-2, per kg, to be used stallation of Foundation Type D2-2, per kg, to be used for we	Total struc		1	KG			\$ 1.6	57	\$ 1.	.67 \$	-	\$ 1.67	\$
31-133 Assembly and ins	stallation of Foundation Type D2-2, per kg, to be used for we	igili ilicicase	s or decreases											
Haul	Foundation Haul	each		17	0.00110	\$ 441.04	\$ 0.49	\$ 0.4	19 1	\$ 0.	.49			
Assemble	Grillage Installation	each	,	20	0.00118	\$ 1,002.72				\$ 1.	.18			
		each	•			\$ -	\$ -	\$ -		\$ -	-			
		each	•			\$ -	\$ -	\$ -	1	\$ -	-			
		each	,			\$ -	\$ -	\$ -			-			
		each	,			\$ -	\$ -	\$ -			-			
		each	•			\$ -	<u> </u>	\$ -			-			
		each	,			\$ -	\$ -				-			
		each				-	\$							
							\$ 1.67	\$ 1.6	67	\$ 1	.67			
				_	1/0			A 4.5		•	50 A		A 4.50	
S1-I34 Assembly and In	nstallation of Foundation Type E1-2, per kg, to be used stallation of Foundation Type E1-2, per kg, to be used for we	Total struc	ture count:	1	KG			\$ 1.5	13	\$ 1.	.53 \$	-	\$ 1.53	\$
S1-134 Assembly and Ins	staliation of Foundation Type E1-2, per kg, to be used for we	eignt increase	s or decreases											
Haul	Foundation Haul	each	1	17	0.00101	\$ 441.04	\$ 0.45	\$ 0.4	15 1	\$ 0	.45			
Assemble	Grillage Installation	each	· .	20	0.00101	\$ 1,002.72		\$ 1.0		\$ 1	.08			
7 locombio	Onlinge Installation	each	 	20	0.00100	\$ -		\$ -		\$ -	-			
		each	1			\$ -	\$ -	\$ -			-			
		each	·			\$ -	\$ -	\$ -			-			
		each	,			\$ -		\$ -		\$ -				
		each	,			\$ -	\$ -	\$ -		\$ -	-			
		each	,			\$ -	\$ -	\$ -	1	\$ -	-			
						\$ -		\$ - \$ -		\$ -	-			
		each				\$ -		\$ -	1	\$ -	-			
		each				\$ -	\$ -	\$ -	1	\$ -				
	rection of Tower Type A1, per kg, to be used for weight	each each	eture count:	1	KG	\$ -	\$ - \$ 1.53	\$ -	53	\$ \$ 1	-	-	\$ 5.04	\$
	Frection of Tower Type A1, per kg, to be used for weight ection of Tower Type A1, per kg, to be used for weight increase.	each each	eture count:		KG	\$ -	\$ - \$ 1.53	\$ - \$ 1.5	53	\$ \$ 1	.53	-	\$ 5.04	\$
S1-I35 Assembly and Er	rection of Tower Type A1, per kg, to be used for weight increase	each each Total struc ases or decre	eture count:	1		\$ -	\$ - \$ 1.53	\$ - \$ 1.5 \$ 5.0	1 1 53 14 14 14 14 14 14 14 14 14 14 14 14 14	\$ - \$ 1 \$ 5.	.53	-	\$ 5.04	\$
S1-I35 Assembly and Ere	rection of Tower Type A1, per kg, to be used for weight increase.	each each Total struc ases or decre	eture count:	1	0.00116	\$ 441.04	\$ - \$ 1.53	\$ - \$ 1.5 \$ 5.0	1 1 53 64 651 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$.04 \$	-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each	eture count:	1 1 20	0.00116 0.00378	\$ 1,002.72	\$ - \$ 1.53 \$ 0.51 \$ 3.79	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 3.7	1 1 53 14 1 1 79 1 1	\$.04 \$.51	-	\$ 5.04	\$
S1-I35 Assembly and Ere	rection of Tower Type A1, per kg, to be used for weight increase.	each each Total struc asses or decre each each each	eture count:	1	0.00116		\$ - \$ 1.53 \$ 0.51 \$ 3.79 \$ 0.74	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 3.7 \$ 0.7	53 1 64 1 79 1 74 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0.		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each	eture count:	1 1 20	0.00116 0.00378	\$ 1,002.72 \$ 1,482.09 \$ -	\$ - \$ 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ -	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 3.7 \$ 0.7	1 1 33 44 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0.		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc asses or decre each each each each each each	eture count:	1 1 20	0.00116 0.00378	\$ 1,002.72 \$ 1,482.09 \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 3.7 \$ 0.7 \$ - \$ -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ -		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each each each	eture count:	1 1 20 40	0.00116 0.00378	\$ 1,002.72 \$ 1,482.09 \$ \$	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 3.7 \$ 0.7 \$ - \$ -	1 1 33 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ -		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each each each ea	eture count:	1 1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 3.7 \$ 0.7 \$ - \$ - \$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3.		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each each each ea	eture count:	1 1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ \$	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ 0.7 \$ - \$ - \$ - \$ - \$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 0. \$ 3.		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	53 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 0. \$ 3.		-	\$ 5.04	\$
S1-I35 Assembly and Endanger Haul Assemble	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	53 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 0. \$ 3.		-	\$ 5.04	\$
S1-I35 Assembly and Err Haul Assemble Erect	Hauling Grilloge Installation Y-Tower Erection	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5.04	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 3. \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and E	ection of Tower Type A1, per kg, to be used for weight increase. Hauling Grillage Installation	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5.04	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ - \$ - \$ - \$ 5.			\$ 5.04 \$ 5.30	
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and E	Hauling Hauling Grillage Installation Y-Tower Erection Frection of Tower Type A2, per kg, to be used for weight	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005	\$ 1,002.72 \$ 1,482.09 \$ \$ \$ \$ \$	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5.0 \$ 5.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ - \$ - \$ 5. \$ 5.				
S1-I35 Assembly and End Haul Assemble Erect S1-I36 Assembly and End S1-I36 Assembly and End Haul	Hauling Hauling Grillage Installation Y-Tower Erection Frection of Tower Type A2, per kg, to be used for weight	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5.0 \$ 5.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ - \$ - \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Hauling Grilloge Installation Y-Tower Erection Frection of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weig	each each Total struc ases or decre each each each each each each each ea	eture count:	1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5 \$ - \$ 5 \$ 5.04	\$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5.0 \$ 5.3	1 1 33	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ - \$ - \$ 5. \$ 5.				
S1-I35 Assembly and End Haul Assemble Erect S1-I36 Assembly and End S1-I36 Assembly and End Haul	Hauling Grillage Installation Y-Tower Erection Frection of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight rection of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the control of Tower Type A2, per kg, to be used for weight increase and the con	each each each each each each each each	eture count:	1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5.0 \$ 5.3	1 1 33	\$ 0. \$ 0. \$ 0. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Frection of Tower Type A1, per kg, to be used for weight increase the state of the	each each each each each each each each	eture count: cases cture count: cases	1 20 40 1 1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.77 \$ 0.77 \$ 0.77 \$ 0.74 \$ 0.77	\$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5.0 \$ 5.3	1 1 33	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ - \$ - \$ 5. \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Frection of Tower Type A1, per kg, to be used for weight increase the state of the	each each each each each each each each	eture count: eases eture count: eases	1 20 40 1 1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,482.09	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5.0 \$ 5.0 \$ 5.3	1 1 33	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Frection of Tower Type A1, per kg, to be used for weight increase the state of the	each each each each each each each each	eture count: cases cture count: cases	1 20 40 1 1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - 1.53 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5	\$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Frection of Tower Type A1, per kg, to be used for weight increase the state of the	each each each each each each each each	eture count: cases cture count: cases	1 20 40 1 1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04	\$ - 5.0 \$ 0.5 \$ 0.5 \$ 0.7 \$ - 5 \$ - 5 \$ - 5 \$ - 5 \$ - 5 \$ - 5 \$ - 5 \$ - 5 \$ - 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5.				
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Frection of Tower Type A1, per kg, to be used for weight increase the state of the	each each each each each each each each	eture count: eases eture count: eases	1 20 40 1 1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 5.04	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ \$ - \$ \$ 5.0 \$ 5.0 \$ 5.0 \$ 5.0 \$ 5.0	1	\$ 1 \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5.	.53 .53 .54 .79 .74 			
S1-I35 Assembly and Endage Haul Assemble Erect S1-I36 Assembly and Endage Haul Assemble	Frection of Tower Type A1, per kg, to be used for weight increase the state of the	each each each each each each each each	eture count: cases cture count: cases	1 20 40 1 1 20 40	0.00116 0.00378 0.0005 KG	\$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04	\$ - \$ 1.5 \$ 5.0 \$ 0.5 \$ 0.7 \$ - \$ - \$ \$ -	1	\$ 0. \$ 0. \$ 3. \$ 0. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5				



NALCOR 350 KV HVac Line	e Construction Front 1 (Labrador)		Unito		Hauss a se	Crew Cost								Unit Cost ours and	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost		Materials			Total Materials
S1-I37 Assembly and Erection of	of Tower Type A3, per kg, to be used for weight	Total struc	ture count:	1	KG		\$	5.30)	\$	5.30 \$	-	\$	5.30	\$
51-137 Assembly and Erection of	Tower Type A3, per kg, to be used for weight incre	ases or decre	ases					A							
Haul	Hauling	each		1 1	0.00174	\$ 441.04	\$ 0.77 \$	0.77	1	\$	0.77				
Assemble	Grillage Installation	each		1 20	0.00378	\$ 1,002.72		3.79		\$	3.79				
Erect	Y- Tower Erection	each	,	1 40	0.0005	\$ 1,482.09		0.74		\$	0.74				
		each	•	1		\$ -	\$ - \$	-	1	\$	-				
		each	•	1			\$ - \$		1		-				
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		each				-	\$ - \$ \$ 5.30 \$	5.30	1		5.30				
							δ 5.30 δ	5.30		Ф	5.30				
S1-I38 Assembly and Frection	of Tower Type A4, per kg, to be used for weight	Total struc	ture count:	1	KG		\$	5.04		\$	5.04 \$	_	\$	5.04	\$
S1-I38 Assembly and Erection of	Tower Type A4, per kg, to be used for weight incre	ases or decre	ases	•	_ 110		· ·	0.07			υ.υ-τ ψ		Ψ	0.04	Ψ
22	7F , F														
Haul	Hauling	each		1 1	0.00116	\$ 441.04		0.51			0.51				
Assemble	Grillage Installation	each	,	1 20	0.00378	\$ 1,002.72	\$ 3.79 \$	3.79	1	\$	3.79				
Erect	Y-Tower Erection	each	,	1 40	0.0005	\$ 1,482.09		0.74			0.74				
		each	•	1			\$ - \$	-	1		-				
		each	·	1		-	\$ - \$	-	1	\$	-				
		each		1		\$ -	\$ - \$		1	\$	-				
		each	1		<u> </u>		\$ - \$	-	1		-				
						φ.			4	Φ.					
		each		1		-	\$ - \$	-	1		-				
		each each		1		\$ -	\$ - \$	=	1	\$	-				
		_		1		\$ -			1	\$					
S4 I20 Accombly and Exaction of	of Towar Time D4 marks to be used for weight	each	,	i	NC.	\$ -	\$ - \$ \$ 5.04	- 5.04	1	\$ \$	5.04		¢	F 04	¢
	of Tower Type B1, per kg, to be used for weight	each Total struc	ture count:	1	KG	\$ -	\$ - \$	=	1	\$ \$	-		\$	5.04	\$
	of Tower Type B1, per kg, to be used for weight Tower Type B1, per kg, to be used for weight incre	each Total struc	ture count:	i	КС	\$ -	\$ - \$ \$ 5.04	- 5.04	1	\$ \$	5.04	-	\$	5.04	\$
S1-I39 Assembly and Erection of	Tower Type B1, per kg, to be used for weight incre	each Total structures or decree	ture count:	i		\$ -	\$ - \$ \$ 5.04 \$	5.04 5.04	1	\$ \$	5.04 5.04 \$		\$	5.04	\$
	Tower Type B1, per kg, to be used for weight incre	each Total struc	ture count:	1	0.00116	\$ -	\$ - \$ \$ 5.04 \$ \$ \$ 0.51 \$	5.04 5.04	1 1	\$ \$ \$	5.04 \$ 0.51		\$	5.04	\$
S1-I39 Assembly and Erection of Haul	Tower Type B1, per kg, to be used for weight incre	Total struc eases or decre	ture count:	1		\$ -	\$ - \$ \$ 5.04 \$ \$ \$ 0.51 \$ \$ 3.79 \$	5.04 5.04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$	5.04 5.04 \$		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	Total structers or decre	ture count:	1 1 20	0.00116 0.00378	\$ -441.04 \$ 1,002.72 \$ 1,482.09	\$ - \$ \$ 5.04 \$ \$ \$ 0.51 \$ \$ 3.79 \$	5.04 5.04 0.51 3.79		\$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	Total structases or decre	ture count:	1 1 20	0.00116 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$	\$ - \$ \$ 5.04 \$ \$ \$ 0.51 \$ \$ 3.79 \$ \$ 0.74 \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	each each each each each each each each	ture count:	1 1 20	0.00116 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 0.51 \$ \$ 3.79 \$ \$ 0.74 \$ \$ - \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 -		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	Total structases or decreed each each each each each each each	ture count:	1 1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 -		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	each Total struc eases or decre each each each each each each each ea	ture count:	1 1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 -		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	each Total struc eases or decre each each each each each each each ea	ture count: ases	1 1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre	each Total struc eases or decre each each each each each each each ea	ture count: ases	1 1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74		\$	5.04	\$
S1-I39 Assembly and Erection of Haul Assemble Erect	Tower Type B1, per kg, to be used for weight incre	each Total struc eases or decre each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74 - - - - - 5.04		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection of Tower Type B2, per kg, to be used for weight	each Total structures or decree each each each each each each each e	ture count:	1 1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74		\$	5.04	
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of	Tower Type B1, per kg, to be used for weight incre	each Total structures or decree each each each each each each each e	ture count:	1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74 - - - - - 5.04		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y- Tower Erection of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre	each Total struc eases or decre each each each each each each each ea	ture count:	1 1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 0.51 3.79 0.74 - - - 5.04		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04 5.04 5.05				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre	each Total structures or decree each each each each each each each e	ture count:	1 1 20 40 1 1 1	0.00116 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 0.51 3.79 0.74 - - - 5.04 5.35		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04 5.04 5.05				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection Of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre Hauling Grillage Installation	each Total struc eases or decre each each each each each each each ea	ture count:	1 1 20 40 1 1 1 1 1 20	KG 0.00186 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 0.51 3.79 0.74 - - - 5.04 5.35		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 5.04 \$ 5.04 \$ 5.05 5.05 5.06 5.07 5.07 5.07 5.07 5.07 5.08 5.08 5.08 5.08				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre	each each each each each each each each	ture count:	1 1 20 40 1 1 1 1 1 20	0.00116 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,482.09	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 5.04 5.07 5.04 5.35 0.82 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04 5.04 \$ 0.82 3.79 0.74				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection Of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: ases ture count: ases	1 1 20 40 1 1 20 1 40 1 1 1 1 20 1 40 1 1	KG 0.00186 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,482.09 \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ 5.05 \$ \$ \$ \$ 5.05 \$ \$ \$ \$ 5.05 \$ \$ \$ \$ 5.05 \$ \$ \$ \$ 5.05 \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ 5.05 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 5.04 5.07 5.04 5.35 0.82 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04 5.35 \$ 0.82 3.79 0.74 -				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection Of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: ases ture count: ases	1 1 20 40 1 1 1 1 20 1 40 1 1 1 1 1 20 1 40 1 1 1 1 1 20 1 1 40 1 1 1 1 1 1 1 20 1 1 1 1 1 1 1 20 1 1 1 1	KG 0.00186 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 5.04 5.04 5.04 5.05 5.07 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 5.04 \$ 0.51 3.79 0.74 5.04 5.04 \$ 0.82 3.79 0.74				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection Of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: ases ture count: ases	1 1 20 40 1 1 1 1 20 1 40 1 1 1 1 1 20 1 40 1 1 1 1 1 20 1 1 40 1 1 1 1 1 1 1 20 1 1 1 1 1 1 1 20 1 1 1 1	KG 0.00186 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 5.04 5.07 5.04 5.35 0.82 3.79 0.74		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 0.51 3.79 0.74 5.04 5.35 \$ 0.82 3.79 0.74 -				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection Of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: ases ture count: ases	1 1 20 40 1 1 1 1 20 1 40 1 1 1 1 1 20 1 1 40 1 1 1 1 1 1 20 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00186 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 0.51 \$ \$ 0.74 \$ \$ - \$ \$ \$ 5.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 5.04 5.04 5.04 5.04 5.04 5.05 5.07 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 5.04 \$ 0.51 3.79 0.74 5.04 5.04 \$ 0.82 3.79 0.74				
S1-I39 Assembly and Erection of Haul Assemble Erect S1-I40 Assembly and Erection of S1-I40 Assembly and Erection of Haul Assemble	Tower Type B1, per kg, to be used for weight incre Hauling Grillage Installation Y-Tower Erection Of Tower Type B2, per kg, to be used for weight Tower Type B2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: cases ture count: cases	1 1 20 40 1 1 1 1 20 1 40 1 1 1 1 1 20 1 1 40 1 1 1 1 1 1 20 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00186 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5	5.04 5.04 5.04 5.04 5.04 5.04 5.05 5.07 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.05				



NALCOR 350 kV HVdc Line	e Construction Front 1 (Labrador)				L	Crew Cost	 							Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Co	ost	Materials		nours and Materials	Total Materials
						•									
S1-I41 Assembly and Erection S1-I41 Assembly and Erection of	of Tower Type C1, per kg, to be used for weight of Tower Type C1, per kg, to be used for weight incre	Total struct ases or decre	ure count: ases	1	KG		\$	5.30	5	\$	5.36 \$		\$	5.36	\$
	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,														
Haul	Hauling	each		1	0.00116	\$ 441.04		0.5		\$	0.51				
Assemble	Grillage Installation	each	•	20	0.00378	\$ 1,002.72		3.79		\$	3.79				
Erect	Tower Topping	each	,	6	0.0006	\$ 1,656.68		1.00		\$	1.06				
		each				\$ -	\$ - \$		1	\$	-				
		each		1		\$ -	\$ - \$			\$	-				
		each				-	\$ - \$			\$	-				
		each		1			\$ - \$			\$	-				
		each each				•	\$ - \$ \$ - \$			\$	-				
		eacii				-	\$ 5.36 \$	5.30		\$	5.36				
							φ 0.00 φ	0.00		Ψ	0.00				
S1-I42 Assembly and Erection	of Tower Type C2, per kg, to be used for weight	Total struct	ure count:	1	KG		\$	5.40	5	\$	5.46 \$		\$	5.46	\$
S1-I42 Assembly and Erection of	of Tower Type C2, per kg, to be used for weight incre	ases or decre	ases					• • • • • • • • • • • • • • • • • • • •		•	3.1.0		¥	00	•
Haul	Hauling	each		1	0.00139	\$ 441.04		0.6		\$	0.61				
Assemble	Grillage Installation	each		20	0.00378	\$ 1,002.72				\$	3.79				
Erect	Tower Topping	each		6	0.0006	\$ 1,656. 68		1.06		\$	1.06				
		each				\$ -	\$ - \$			\$	-				
		each				\$ -	\$ - \$	<u>-</u>		\$	-				
		each		1		\$ -	\$ - \$	-		\$	-				
		each				\$ -	\$ - \$			\$	=				
						Φ.									
		each				\$ -	\$ - \$			\$	-				
						\$ - \$ -	\$ - \$	-	1	\$	-				
		each				\$ - \$ -			1						
S1-I43 Assembly and Erection	of Tower Type D1, per kg, to be used for weight	each each	ure count:	1	KG	\$ -	\$ - \$	- 5.40	1	\$	5.46		- \$	5.36	\$
	of Tower Type D1, per kg, to be used for weight of Tower Type D1, per kg, to be used for weight incre	each each Total struct		1	к	\$ -	\$ - \$ \$ 5.46	-	1	\$	-		- \$	5.36	\$
S1-I43 Assembly and Erection of		each each Total struct		1		\$ -	\$ - \$ \$ 5.46 \$	5.40 5.3 0	1	\$ \$	5.46 5.36 \$		- \$	5.36	\$
S1-I43 Assembly and Erection of		each each Total struct eases or decrea	ases	1	0.00116	\$	\$ - \$ 5.46 \$ \$ \$ 0.51 \$	5.40 5.30 0.5	1 1 1	\$ \$	5.46 5.36 \$		- \$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre	each each Total struct eases or decree each each	ases	1 20	0.00116 0.00378	\$ 1,002.72	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ 0.51 \$ \$ 3.79 \$	5.40 5.30 0.5 3.79	1 3 3 1 1 1 1	\$ \$	5.46 5.36 \$		\$	5.36	\$
S1-I43 Assembly and Erection of	of Tower Type D1, per kg, to be used for weight incre	each each Total struct eases or decre- each each each each	ases	1	0.00116		\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		\$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each Total struct eases or decre- each each each each each	ases	1 20	0.00116 0.00378	\$ 1,002.72 \$ 1,656.6 8 \$	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 3 3 3 1 3 1 1 1 1	\$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		\$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each Total struct eases or decre- each each each each each each	ases	1 20	0.00116 0.00378	\$ 1,002.72 \$ 1,656.68 \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	\$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 -		- \$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each Total struct eases or decre each each each each each each each	ases	1 20	0.00116 0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 -		- \$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each Total struct eases or decree each each each each each each each e	ases	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 3 3 3 1 3 3 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		· \$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each rotal struct eases or decree each each each each each each each e	ases	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		- \$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each Total struct eases or decree each each each each each each each e	ases	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 0.5 3.79 1.06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		\$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incre- Hauling Grillage Installation	each each rotal struct eases or decree each each each each each each each e	ases	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.40 5.30 0.5 3.79 1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		\$	5.36	\$
S1-I43 Assembly and Erection of Haul Assemble Erect	of Tower Type D1, per kg, to be used for weight incress Hauling Grillage Installation Tower Topping	each each each each each each each each	ases	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 0.57 3.79 1.06 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection	of Tower Type D1, per kg, to be used for weight incress Hauling Grillage Installation Tower Topping of Tower Type D2, per kg, to be used for weight	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 0.5 3.79 1.06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06		\$	5.36	
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection	of Tower Type D1, per kg, to be used for weight incress Hauling Grillage Installation Tower Topping	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 0.57 3.79 1.06 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection	of Tower Type D1, per kg, to be used for weight incress Hauling Grillage Installation Tower Topping of Tower Type D2, per kg, to be used for weight	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.44 5.36 0.5 3.79 1.06 - - - 5.30 5.41	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$				
S1-I44 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of	of Tower Type D1, per kg, to be used for weight incress Hauling Grillage Installation Tower Topping of Tower Type D2, per kg, to be used for weight incress for the form of Tower Type D2, per kg, to be used for weight incress for the form of the	each each each each each each each each	ure count:	1 1 20 1 20	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ - \$ \$ 5.46 \$ \$ \$ 5.46 \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.4 5.3(5.3(5.37) 1.0(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$ 0.62 3.79				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of	of Tower Type D1, per kg, to be used for weight incress Hauling Grillage Installation Tower Topping of Tower Type D2, per kg, to be used for weight incress for the stallage of the stallage	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ 5.46 \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.44 5.36 0.5 3.79 1.06 - - - 5.30 5.41	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incress that the state of the state	each each each each each each each each	ure count:	1 1 20 1 20	0.00116 0.00378 0.0006 KG	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,656.68	\$ - \$ \$ 5.46 \$ \$ \$ 5.46 \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.4 5.3(5.3(5.37) 1.0(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$ 0.62 3.79				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incress that the state of the state	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006 KG	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,656.68	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.44 5.36 0.5 ² 3.7 ³ 1.06 - - - 5.36 5.4 ³ 0.66 3.7 ³ 1.06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$ 0.62 3.79 1.06				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incress that the state of the state	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006 KG	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.44 5.36 0.5° 3.7° 1.06 - - - 5.30 5.4° 0.6° 3.7° 1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$ 0.62 3.79 1.06 -				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incress that the state of the state	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006 KG	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ 0.51 \$ \$ \$ 3.79 \$ \$ 1.06 \$ \$ \$. \$ \$. \$ \$ \$ \$. \$ \$. \$ \$ \$. \$ \$	5.40 5.30 0.57 3.79 1.00 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$ 0.62 3.79 1.06				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incress that the state of the state	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006 KG	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ \$ 0.51 \$ \$ 3.79 \$ \$ 1.06 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.4(5.3(5.3(5.37) 1.0(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 5.46 5.36 \$ 0.51 3.79 1.06				
S1-I43 Assembly and Erection of Haul Assemble Erect S1-I44 Assembly and Erection S1-I44 Assembly and Erection of Haul Assemble	of Tower Type D1, per kg, to be used for weight incress that the state of the state	each each each each each each each each	ure count:	1 20 6	0.00116 0.00378 0.0006 KG	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.46 \$ \$ \$ 0.51 \$ \$ 3.79 \$ \$ 1.06 \$ \$ - \$ \$ \$ 5.36 \$ \$ \$ 1.06 \$ \$ \$ 1.06 \$ \$ \$ 1.06 \$	5.4i 5.3i 5.3i 5.3i 5.3i 5.3i 5.4i 6.6i 6.7i 7.7i 7.7i 7.7i 7.7i 7.7i 7.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.46 5.36 \$ 0.51 3.79 1.06 5.36 5.47 \$ 0.62 3.79 1.06				



	NALCOR 350 kV HVdc Line Construction Front 1 (Labrador)				Crew Cost					Total Unit	
Payment Item	Description	Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Manhours Materials Mater	
			l Clew No.	•	I louily Nate	Unit Cost		1-	<u> </u>		
	S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weight		1	KG			\$ 5.44	\$	5.44	\$ - \$	5.44 \$
	S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weight incr	eases or decreases									
	Haul	each	1 1	0.00133	\$ 441.04	\$ 0.59	\$ 0.59	1 \$	0.59		
	Assemble Grillage Installation	each	1 20	0.00378	\$ 1,002.72	\$ 3.79					
	Erect Tower Topping	each	1 6	0.0006	\$ 1,656.68	\$ 1.06	\$ 1.06				
		each	1		\$ -	\$ -	\$ -	1 \$			
		each	1		\$ -	\$	\$ -	1 \$	-		
		each	1		\$ -	\$ -	\$ -		-		
		each	1		\$ -	\$ -	\$ -	1 \$	-		
		each	1		\$	\$ -		1 \$			
		each	1		\$ -	,	\$ -	1 \$			
						\$ 5.44	\$ 5.44	\$	5.44		
V 140	04.140.0	T-1-1-1	4					•		* 0.00F.000.04	000.04 \$ 0.005.000
V::I46	S1-I46 Survey Cost	Total structure count:	1	LS			-	\$	-	\$ 2,865,292.91 \$ 2,865,	292.91 \$ 2,865,292.
	S1-I46 Survey Cost										
		each	1		\$ -	-	-	1 \$	-		
		each	1		\$ -	\$ -	\$ -	1 \$			
		each	1		\$ -	\$ -	\$ -	1 \$			
		each	1		\$ -	\$ -	\$ -	1 \$			
		each	1		\$ -	\$ -	\$ -	1 \$	-		
		each	1		\$ -	\$ -	\$ -	1 \$	-		
		each	1		\$ -	\$ -	\$ -	1 \$	-		
		each	1		\$ -	\$ -	\$ -	1 \$	-		
		each	1		\$ -	\$ -	\$ -	1 \$	=		
						\$ -	\$ -	\$	-		
	NRM R.	-	100			*	A 000 070 F0		0.000.74		400.04
B-E(Rider)) RiderPole	Total structure count:	100				\$ 986,673.56	\$	9,866.74	236.90 \$ 10,	103.64 \$ 23,690.
	Haul Wire Hauling	each	100 9	3.00	\$ 405.51				1,216.52		
	Install Rider Pole Crew	each	100 16	3.00	\$ 1,238.95						
	Remove Rider Pole Crew	each	100 16	3.00	\$ 1,238.95						
	Haul Back Wire Hauling	each	100 9	3.00	\$ 405.51						
						\$ 9,866.74	\$ 986,673.56	\$	9,866.74		
			7								

Construction Total



Man Hours Total: \$ 200,342,426.52 Mat. Total: \$ 194,969,967.79



		1			2	l	3		4	1	5
		Haul	ing		paration	Block	ting Crew	Latti	ce Assembly	Lattic	e Erection
		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Designation Supervisor	Rate \$ 142.83		\$ -		\$ -		\$ -		\$ -		\$ -
Foreman	\$ 120.15		\$ -	0.50	\$ 60.07		\$ -	1.00	\$ 120.15	1.00	\$ 120.15
Surveyor	\$ 111.85		\$ -	0.50	\$ 55.92		\$ -		\$ -		\$ -
Lineman	\$ 111.85		\$ -		\$ -		\$ -	1.00	\$ 111.85	2.00	\$ 223.70
Apprentice - 4th Year Apprentice - 3rd Year	\$ 103.90 \$ 95.95		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 95.95	2.00	\$ 207.79 \$ 191.89	1.00 2.00	\$ 103.90 \$ 191.89
Apprentice - 2nd Year	\$ 87.99	1.00	\$ 87.99		\$ -	1.00	\$ -	2.00	\$ -	2.00	\$ -
Apprentice - 1st Year	\$ 80.04		\$ -		\$ -		\$ -		\$ -		\$ -
Equipment Operator Truck Driver / Picker Op.	\$ 96.49 \$ 107.16	1.00	\$ - \$ 107.16	2.00	\$ 192.99 \$ -	1.00	\$ 96.49 \$ -	1.00	\$ 96.49 \$ 107.16	1.00 2.00	\$ 96.49 \$ 214.32
Labourer	\$ 87.44	1.00	\$ 107.16		\$ -		\$ -	1.00	\$ 107.16	2.00	\$ 214.32
3rd Party Density Tester	\$ 243.80		\$ -		\$ -		\$ -		\$ -		\$ -
Carpenter	\$ 100.05		\$ -		\$ -		\$ -		\$ -		\$ -
Telecom Foreman Telecom Cable Splicer	\$ 87.44 \$ 87.44		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -
Included Super or Operator	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
none	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TOTAL LABOUR			405.40	2.00	200.00	0.00	400.44	0.00	005.04	0.00	050.45
TOTAL LABOUR		2.00	195.16	3.00	308.98	2.00	192.44	8.00	835.34	9.00	950.45
Pickup	\$ 24.36		\$ -	0.50	\$ 12.18		\$ -		\$ -		\$ -
Crew Cab Truck	\$ 29.20	1.00	\$ 29.20	1.00	\$ 29.20		\$ -	2.00	\$ 58.40	2.00	\$ 58.40
Conductor Splicing Truck OPGW Splicing Truck	\$ 46.02 \$ 93.60		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Picker - 17 Ton	\$ 93.60 \$ 136.27		\$ -		\$ -		\$ -	1.00	\$ 136.27		\$ -
Picker - 38 Ton	\$ 180.25		\$ -		\$ -		\$ -		\$ -	1.00	\$ 180.25
40T RT Crane	\$ 195.70		\$ -		\$ -		\$ -		\$ -		\$ -
60T RT Crane 80T RT Crane	\$ 247.20 \$ 345.05		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ 247.20 \$ -
Digger - TelElect 5052	\$ 89.40		\$ -		\$ -	1.00	\$ 89.40		\$ -	-	\$ -
200T All-Tr. crane	\$ 418.72		\$ -		\$ -		\$ -		\$ -	-	\$ -
Texoma Quad or Side by Side	\$ 162.23 \$ 24.21		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$ -	0.25	\$ 21.89		\$ -
53' Tridem trailer	\$ 11.85	4.00	\$ 47.38		\$ -		\$ -	-	\$ -		\$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -
T/A Rock Truck Watson 1010	\$ 121.67 \$ 190.55		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Watson 1100	\$ 247.20		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 2500	\$ 309.00		\$ -	_	\$ -		\$ -		\$ -		\$ -
Soilmec SR65	\$ 437.75	1.00	\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$ 134.67 \$ 134.67	1.00	\$ 134.67 \$ -		\$ -		\$ - \$ -		\$ -		\$ - \$ -
Self-Loader	\$ 134.67		\$ -		\$ -		\$ -		\$ -		\$ -
55' Bucket Truck	\$ 81.11		\$ -		\$ -		\$ -		\$ -		\$ -
Pole Trailer Crawler Tractors 750 JD	\$ 22.04 \$ 165.83		\$ - \$ -	1.00	\$ - \$ 165.83		\$ - \$ -		\$ - \$ -		\$ - \$ -
JD 310 Back Hoe	\$ 68.13		\$ -	1.00	\$ -		\$ -		\$ -		\$ -
JD 554 Loader	\$ 69.27	0.50	\$ 34.63		\$ -		\$ -	0.50	\$ 34.63	1.00	\$ 69.27
JD 290 Track-hoe	\$ 130.60		\$ -	1.00	\$ 130.60		\$ -		\$ -		\$ -
Skid-Steer Loader Nodwells - Picker up to 17 Ton	\$ 38.11 \$ 170.36		\$ - \$ -		\$ -		\$ - \$ -	-	\$ - \$ -		\$ - \$ -
Nodwells - Picker over 17 Ton	\$ 228.25	anny .	\$ -		\$ -		\$ -		\$ -		\$ -
Nodwell - Digger	\$ 130.60	/	\$ -		\$ -		\$ -		\$ -		\$ -
Trencher 10T Tele-Handler	\$ 84.36 \$ 5 3.0 0		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 53.00		\$ - \$ -
LGP Texoma Nodwell	\$ 53.00 \$ 162.23		\$ -		\$ -		\$ - \$ -	1.00	\$ 53.00		\$ -
LGP Highboy ROW Trailer	\$ 32.45		\$ -		\$ -		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -	1.00	\$ 24.21		\$ -
Reel Trailer Tensioner	\$ 72.10 \$ 139.05		\$ - \$ -		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Puller	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -
1 Drum Puller	\$ 77.25		\$ -		\$ -		\$ -		\$ -		\$ -
Single Tensioner	\$ 77.25 \$ 0.52		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Single Traveller JD 350 LDC Excavator	\$ 0.52 \$ 160.89		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Compressor	\$ 22.04		\$ -		\$ -		\$ -		\$ -		\$ -
Grout truck	\$ 82.40		\$ -		\$ -		\$ -		\$ -		\$ -
Rock Drill Press & Pump, Genset, Light plant	\$ 103.00 \$ 13.46		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.50	\$ - \$ 20.19	1.00	\$ - \$ 13.46
Water pump	\$ 40.99		\$ -		\$ -		\$ -	1.30	\$ 20.19	1.00	\$ 13.46
Pilot Line Winder	\$ 92.70		\$ -		\$ -		\$ -		\$ -		\$ -
Wire Winder	\$ 17.69		\$ -		\$ -		\$ -		\$ -		\$ -
Spacer Buggy Travellers (ea)	\$ 46.35 \$ 1.24		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Traffic Control Sign	\$ 21.84		\$ -		\$ -		\$ -		\$ -		\$ -
Hoe-Pack	\$ 25.75		\$ -		\$ -		\$ -		\$ -		\$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$ -		\$ -		\$ -
Concrete Pumper Survey Equipment	\$ 206.00 \$ 56.65		\$ - \$ -	0.50	\$ - \$ 28.33		\$ - \$ -		\$ - \$ -		\$ - \$ -
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$ -	0.50	\$ -		\$ -		\$ -		\$ -
Medium Lift Helicopter - Operated	\$ 3,071.98		\$ -		\$ -		\$ -		\$ -		\$ -
Light Duty Helicopter - Operated	\$ 1,905.50	0.50	\$ -	-	\$ -		\$ -	7.0-	\$ -	0.00	\$ -
TOTAL EQUIPMENT		6.50	245.89	4.00	366.14	1.00	89.40	7.25	348.59	6.00	568.58
TOTAL CREW RATE			\$ 441.04		\$ 675.12		\$ 281.84		\$ 1,183.92	1	\$ 1,519.02
						-					



The property is not as in the property is not all and property is not all an				6		7		8	1	9	1	10
Registration Regi				wer Topping		vellers&Glass		Travellers		Hauling		Site Prep
Toping	Designation	Rate	NO.	Kate	NO.	Kate	NO.	Rate	NO.	Kate	NO.	Kate
Service S. 1114.65 CO. 2 - 27.70 CO.												'
Description 1			1.00				1.00				1.00	
Separation 2 Separate Separ			2.00		1.00		3.00				1.00	
Appendix Deliver												
Agreement Cast Variet S			2.00		1.00		3.00		1.00		2.00	
Proceedings					1.00				1.00		2.00	
Marchael St. P.7.4 St.		\$ 96.49	1.00	\$ 96.49		\$ 96.49	1.00			\$ -	3.00	\$ 289.48
Second Process Seco	Truck Driver / Picker Op.		2.00		1.00		-		1.00		1.00	
Compared S											-	
Teleport Capendor S				\$ -						\$ -		
Included Supplier Columnts S		•										
TOTAL LABOUR \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ \$	·											
Person										_		
Person	TOTAL 1 DOUD			252.45		100.50	2.00		0.00	105.10		204.00
Crew Cap Trock Computed Funday Service Computed Selecting Trock Service	TOTAL LABOUR		9.00	950.45	4.00	403.50	8.00	840.02	2.00	195.16	8.00	804.62
Gembert Spieng Truck	Pickup											
### OPPOWS Spinlar Process \$ \$ \$ \$ \$ \$ \$ \$ \$			2.00		1.00		2.00		1.00		1.00	
Picker - 38 Ton	OPGW Splicing Truck											
### ACT FIT Clane \$ 247.29 \$ -												
### STR Crane \$ 34506 100 \$ 36505 \$ 5			1.00									
Diggor Tellient 5052	60T RT Crane		1.00									
2007 ABT Crame	80T RT Crane		1.00	\$ 345.05		\$ -		\$ -				
Tenoma											1.00	
Quade of Side by Side \$ 24.21 \$.												
ST-Tiden Trailer S	Quad or Side by Side											
TAG Gray Truck			-						1.00			
Watson 1010									1.00			
Watson 1500	T/A Rock Truck	\$ 121.67		\$ -		\$ -		\$ -		\$ -		
Watson 2500 \$ 309.00 \$ -												
Solmer SR65 S 437.75 S	Watson 2500				A							
Tractor Trailler (Helavy) \$ 134.67 \$	Soilmec SR65	•		\$ -		\$ -						
Self-Loader \$ 134.67 \$	Tractor Trailer/Picker				1.00				1.00		1.00	
S5 Bucket Truck		•							1.00		1.00	
Sample S	55' Bucket Truck	\$ 81.11		\$ -		\$ -		\$ -				
JD 310 Back Hobe	Pole Trailer											
10.554 Loader												
Skid-Ster Loader			1.00	\$ 69.27	1.00	\$ 69.27	1.00		0.50	\$ 34.63	1.00	\$ 69.27
Nodwell - Picker up to 17 Ton \$ 170.36 \$ \$ \$ \$ \$ \$ \$ \$ \$											1.00	
Nodwell - Digger												
Trencher			anne y									
10T Tele-Handler	Nodwell - Digger											
LGP Texoma No.covell \$ 162.23 S -												
Quad or Side by Side	LGP Texoma Nodwell	\$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -
Reel Trailer												
Tensioner	Reel Trailer											
1 1 2 2 3 3 3 3 3 3 3 3	Tensioner	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -
Single Tensioner	Puller											
Single Traveller												
Compressor \$ 22.04 \$ - \$	Single Traveller	\$ 0.52	\	\$ -		\$ -		\$ -		\$ -		\$ -
Second S	JD 350 LDC Excavator											
Rock Drill												
Water pump	Rock Drill	\$ / 103.00		\$ -		\$ -		\$ -		\$ -		\$ -
Pilot Line Winder			1.00									
Wire Winder \$ 17.69 \$ -		*										
Travellers (ea) \$ 1.24 \$ -	Wire Winder											
Traffic Control Sign \$ 21.84 \$ - <td>Spacer Buggy</td> <td></td>	Spacer Buggy											
Hoe-Pack \$ 25.75 \$ - \$												
Pile Driving Crew (per m) \$ 211.07 \$ -	Hoe-Pack											-
Survey Equipment \$ 56.65 \$ -	Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$ -		\$ -		\$ -
Heavy Lift Helicopter - Operated \$ 17,725.89 \$ -												
Medium Lift Helicopter - Operated \$ 3,071.98 \$ -	, , , ,	•										
TOTAL EQUIPMENT 7.00 706.23 3.00 233.14 3.25 604.04 3.50 210.35 6.00 477.51	Medium Lift Helicopter - Operated	\$ 3,071.98		\$ -		\$ -		\$ -		\$ -		
	Light Duty Helicopter - Operated	\$ 1,905.50	7.00		2.00				0.50		0.00	
TOTAL CREW RATE \$ 1,656.68 \$ 636.64 \$ 1,444.07 \$ 405.51 \$ 1,282.13	TOTAL EQUIPMENT		7.00	706.23	3.00	∠33.14	3.25	604.04	3.50	∠10.35	6.00	4//.51
	TOTAL CREW RATE			\$ 1,656.68		\$ 636.64	<u></u>	\$ 1,444.07	<u> </u>	\$ 405.51	<u> </u>	\$ 1,282.13



			11		12			13			14		15
			ringing	T	ie -in			aden			er Crews		GW Install
Designation	Rate	No.	Rate	No.		Rate	No.		Rate	No.	Rate	No.	Rate
Supervisor	\$ 142.83	1.00	\$ 142.83		\$	-		\$	-		\$ -		\$ -
Foreman	\$ 120.15	2.00	\$ 240.29		\$	-	1.00	\$	120.15	1.00	\$ 120.15	1.00	\$ 120.15
Surveyor Lineman	\$ 111.85 \$ 111.85	7.00	\$ 111.85 \$ 782.94	2.00	\$	223.70	2.00	\$	223.70		\$ - \$ -	3.00	\$ - \$ 335.55
Apprentice - 4th Year	\$ 103.90	7.00	\$ -	2.00	\$	-	2.00	\$	-	3.00	\$ 311.69	1000	\$ 103.90
Apprentice - 3rd Year	\$ 95.95	4.00	\$ 383.78		\$	-	2.00	\$	191.89		\$ -	2.00	\$ 191.89
Apprentice - 2nd Year	\$ 87.99		\$ - \$ -	1.00	\$	87.99		\$	-	1.00	\$ 87.99		\$ -
Apprentice - 1st Year Equipment Operator	\$ 80.04 \$ 96.49	6.00	\$ 578.96		\$ \$	-	2.00	\$	192.99		\$ - \$ -	4.00	\$ - \$ 385.97
Truck Driver / Picker Op.	\$ 107.16	7.00	\$ 750.13	1.00	\$	107.16	1.00	\$	107.16	1.00	\$ 107.16		\$ 321.48
Labourer	\$ 87.44		\$ -		\$	-		\$	-		\$ -		\$ -
3rd Party Density Tester Carpenter	\$ 243.80 \$ 100.05		\$ - \$ -		\$	-		\$			\$ - \$ -		\$ - \$ -
Telecom Foreman	\$ 87.44		\$ -		\$	-		\$	-		\$ -		\$ -
Telecom Cable Splicer	\$ 87.44		\$ -		\$	-		\$	-		\$ -		\$ -
Included Super or Operator none	\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ - \$ -		\$ -
	*				Ψ			Ψ					
TOTAL LABOUR		28.00	2,990.79	4.00		418.85	8.00		835.88	6.00	626.99	14.00	1,458.94
Pickup Crow Cob Truck	\$ 24.36	2.00	\$ 48.72	1.00	\$	- 20.20	2.00	\$	- 50 40	1.00	\$ 24.36		\$ 48.72
Crew Cab Truck Conductor Splicing Truck	\$ 29.20 \$ 46.02	7.00 1.00	\$ 204.40 \$ 46.02	1.00	\$	29.20	2.00	\$	58.40	1.00	\$ 29.20	3.00	\$ 87.60 \$ -
OPGW Splicing Truck	\$ 93.60		\$ -		\$	-		\$			\$ -		\$ -
Picker - 17 Ton	\$ 136.27	-	\$ -		\$	-	4.00	\$	100.05	4.00	\$ -		\$ -
Picker - 38 Ton 40T RT Crane	\$ 180.25 \$ 195.70	2.00	\$ - \$ 391.40		\$	-	1.00	\$	180.25	1.00	\$ 180.25 \$ -	2.00	\$ - \$ 391.40
60T RT Crane	\$ 247.20		\$ -		\$	-		\$	-		\$ -	2.00	\$ -
80T RT Crane	\$ 345.05	4.00	\$ -		\$			\$	-		\$ -	163	\$ -
Digger - TelElect 5052 200T All-Tr. crane	\$ 89.40 \$ 418.72	1.00	\$ 89.40 \$ -		\$	-		\$			\$ -	1.00	\$ 89.40 \$ -
Texoma	\$ 162.23		\$ -		\$			\$	_		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$	-		\$			\$ -		\$ -
120' Gene Lift 53' Tridem trailer	\$ 87.55 \$ 11.85		\$ - \$ -		\$	-		\$	\ <u>:</u>		\$ -		\$ - \$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$	-		\$			\$ -		\$ -
T/A Rock Truck	\$ 121.67		\$ -		\$	-		\$	-		\$ -		\$ -
Watson 1010 Watson 1100	\$ 190.55 \$ 247.20		\$ - \$ -		\$	-		\$	-		\$ -		\$ - \$ -
Watson 2500	\$ 309.00		\$ -		\$	-		\$	-		\$ -		\$ -
Soilmec SR65	\$ 437.75		\$ -		\$	-		\$			\$ -		\$ -
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$ 134.67 \$ 134.67	2.00	\$ - \$ 269.35		\$	-		\$			\$ -	1.00	\$ - \$ 134.67
Self-Loader	\$ 134.67	2.00	\$ -		\$	-		\$			\$ -	1.00	\$ -
55' Bucket Truck	\$ 81.11		\$ -		\$	-		\$			\$ -		\$ -
Pole Trailer Crawler Tractors 750 JD	\$ 22.04 \$ 165.83	2.00	\$ - \$ 331.66		\$		1.00	\$	165.83		\$ -	1.00	\$ - \$ 165.83
JD 310 Back Hoe	\$ 68.13	2.00	\$ -		\$	-	1.00	\$	-		\$ -	1.00	\$ -
JD 554 Loader	\$ 69.27	2.00	\$ 138.54		\$			\$	-		\$ -	1.00	\$ 69.27
JD 290 Track-hoe Skid-Steer Loader	\$ 130.60 \$ 38.11	2.00	\$ 261.21		\$	-	1.00	\$	130.60		\$ - \$ -		\$ - \$ -
Nodwells - Picker up to 17 Ton	\$ 170.36		\$ -		\$	-		\$	- /		\$ -		\$ -
Nodwells - Picker over 17 Ton	\$ 228.25	2.00	\$ 456.50	1.00	\$	228.25		\$			\$ -		\$ -
Nodwell - Digger Trencher	\$ 130.60 \$ 84.36		\$ - \$ -		\$			\$			\$ - \$ -		\$ - \$ -
10T Tele-Handler	\$ 53.00		\$ -		\$	-		\$	-		\$ -		\$ -
LGP Texoma Nodwell	\$ 162 <mark>.23</mark>		\$ -		\$	-		\$	-		\$ -		\$ -
LGP Highboy ROW Trailer Quad or Side by Side	\$ 32.45 \$ 24.21		\$ - \$ -		\$	-		\$	-		\$ - \$ -		\$ - \$ -
Reel Trailer	\$ 72.10	3.00	\$ 216.30		\$			\$	-		\$ -	1.00	\$ 72.10
Tensioner	\$ 139.05	1.00	\$ 139.05		\$	-		\$	-		\$ -		\$ -
Puller 1 Drum Puller	\$ 139.05 \$ 77.25	1.00	\$ 139.05 \$ -		\$	-		\$	-		\$ - \$ -	1.00	\$ - \$ 77.25
Single Tensioner	\$ 77.25		\$ -		\$	-		\$	-		\$ -	1.00	\$ 77.25
Single Traveller	\$ 0.52		\$ -		\$	-		\$			\$ -	50.00	\$ 25.75
JD 350 LDC Excavator Compressor	\$ 160.89 \$ 22.04		\$ - \$ -		\$	-		\$	-		\$ -		\$ - \$ -
Grout truck	\$ 82.40		\$ -		\$	-		\$			\$ -		\$ -
Rock Drill	\$ 103.00	4.00	\$ -		\$	-	4.00	\$	- 10.10		\$ -		\$ -
Press & Pump, Genset, Light plant Water pump	\$ 13.46 \$ 40.99	1.00	\$ 13.46 \$ -		\$	-	1.00	\$	13.46		\$ - \$ -		\$ - \$ -
Pilot Line Winder	\$ 92.70		\$ -		\$	-		\$	-		\$ -	1.00	\$ 92.70
Wire Winder	\$ 17.69		\$ -		\$	-		\$	-	2	\$ -		\$ -
Spacer Buggy Travellers (ea)	\$ 46.35 \$ 1.24	150.00	\$ - \$ 185.40		\$	-		\$	-	3.00	\$ 139.05 \$ -		\$ - \$ -
Traffic Control Sign	\$ 21.84	.30.00	\$ -		\$	-		\$	-		\$ -		\$ -
Hoe-Pack	\$ 25.75		\$ -		\$	-		\$	-		\$ -		\$ -
Pile Driving Crew (per m) Concrete Pumper	\$ 211.07 \$ 206.00		\$ - \$ -		\$	-		\$			\$ - \$ -		\$ - \$ -
Survey Equipment	\$ 56.65	1.00	\$ 56.65		\$	-		\$			\$ -		\$ -
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$ -		\$	-		\$			\$ -		\$ -
Medium Lift Helicopter - Operated Light Duty Helicopter - Operated	\$ 3,071.98 \$ 1,905.50		\$ - \$ -		\$	-		\$	<u> </u>		\$ - \$ -		\$ - \$ -
TOTAL EQUIPMENT	- 1,000.00	180.00	2,987.10	2.00	Ψ	257.45	6.00	Ű	548.54	6.00	372.86	65.00	1,331.94
TOTAL CREW RATE		j	\$ 5,977.88		\$	676.30		\$	1,384.42	l I	\$ 999.85	1	\$ 2,790.88
			,		•				,				,



			D:1	16		F	17	n Haud	Foundation	18 Sur	ION (\$3EC/L)		19 Excava	ation		20 Inst	allation	Bool-f"	21 and		64	22 Cleanun
			No.	role	Rate	No.	ation	n Haul Rate	No.	our	/ey (\$250/h) Rate	Found No.		ation Rate	Grillage No.	ınst	Rate	No.	and	Rate	No.	Cleanup Rate
Designation		Rate																				
	\$	142.83 120.15	1.00	\$	120.15	-	\$	-		\$	-	1.00	\$	- 120.15	1.00	\$	120.15		\$	-		\$ - \$ -
	\$	111.85	1.00	\$	-	-	\$	-	2.00	\$	223.70	1.00		111.85	1.00	\$		0.50	\$	55.92		\$ -
Lineman	\$	111.85	1.00	\$	111.85	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	103.90 95.95		\$	-	-	\$	-		\$	-		\$	-	2.00	\$	191.89		\$	-		\$ - \$ -
	\$	87.99	2.00	\$	175.99	1.00	\$	87.99		\$	-		\$	-	2.00	\$	- 191.09		\$	-		\$ -
Apprentice - 1st Year	\$	80.04		\$	-	-	\$	-		\$	-	1.00	\$	80.04		\$			\$	-		\$ -
	\$	96.49	1.00	\$	96.49	-	\$	-		\$	-	3.00	_	289.48	1.00	\$	96.49	3.00	\$		1.00	\$ 96.49
	\$	107.16 87.44	2.00	\$	214.32	1.00	\$	107.16		\$	-		\$	-	1.00	\$	107.16	1.00	\$	87.44		\$ - \$ -
	\$	243.80		\$	-	1	\$	-		\$	-		\$	-		\$	-	-	\$	-		\$ -
	\$	100.05		\$	-	-	\$	-		\$	-		\$			\$	-		\$	_		\$ -
	\$	87.44 87.44		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ - \$ -
	\$			\$	-	-	\$	-		\$	-		\$	7 -		\$	- /		\$	-		\$ -
none	\$	-		\$	-	-	\$	-		\$	-		\$	-		\$	- 4		\$			\$ -
TOTAL LABOUR			7.00		740.00	0.00	_	405.40	2.00		000.70	0.00		004.50	0.00		007.54	4.50	_	400.04	4.00	00.40
TOTAL LABOUR			7.00		718.80	2.00		195.16	2.00		223.70	6.00		601.52	6.00		627.54	4.50	\vdash	432.84	1.00	96.49
Pickup	\$	24.36		\$	-	-	\$	-	1.00	\$	24.36	1.00	\$	24.36	1.00	\$	2 4.36	0.50	\$	12.18		\$ -
Crew Cab Truck	\$	29.20	1.00	\$	29.20	1.00	\$	29.20	-	\$	- /	1.00	\$	29.20	1.00	\$	29.20	2.00	\$	58.40	1.00	\$ 29.20
	\$	93.60		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	÷		\$ - \$ -
	\$	136.27	1.00	\$	136.27	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
Picker - 38 Ton	\$	180.25		\$	-	-	\$	-		\$	-		\$			\$			\$	-		\$ -
	\$	195.70 247.20		\$	-	-	\$	-		\$	-		\$	-	1.00	\$			\$	-		\$ - \$ -
	\$	345.05		\$	-	-	\$	-	_	\$	-		\$	-		\$	-		\$	-		\$ - \$ -
Digger - TelElect 5052	\$	89.40	1.00	\$	89.40	-	\$	- /		\$	-		\$			\$		7	\$, <u>, , , , , , , , , , , , , , , , , , </u>		\$ -
	\$	418.72		\$	-	-	\$			\$	-		\$	4		\$	- '		\$			\$ -
	\$	162.23 24.21		\$	-	-	\$	-	-	\$	-		\$			\$	-		\$	-		\$ - \$ -
	\$	87.55		\$	-	-	\$	-		\$			\$			\$	-		\$	-		\$ -
	\$	11.85		\$	-	4.00	\$	47.38		\$	<u> </u>		\$	-		\$	-		\$	-		\$ -
	\$	68.13		\$	-	-	\$	-		\$	1		\$	Ĭ.		\$	-/		\$	-		\$ -
	\$	121.67 190.55		\$	-	-	\$	-		\$	-		\$			\$	<u> </u>		\$	-		\$ - \$ -
	\$	247.20		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	309.00		\$			\$	- 4		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	437.75		\$	-	-	\$	404.07		\$	-		\$	-		\$	-		\$	-		\$ -
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$	134.67 134.67	1.00	\$	134.67	1.00	\$	13 4.67 -		\$			\$	-		\$	-		\$	-		\$ - \$ -
`	\$	134.67		\$	-	-	\$	1		\$	-		\$	-4		\$	-		\$	-		\$ -
	\$	81.11		\$	-	_	\$	-		\$	-		\$			\$	-		\$	-		\$ -
	\$	22.04 165.83		\$	-	-	\$	-	_	\$			\$	-		\$	-		\$	-		\$ - \$ -
	\$	68.13		\$		-	\$		_	\$	<i>-</i>		\$			\$	-		\$	-		\$ -
	\$	69.27	_	\$	-	0.50	\$	34.63		\$	-	1.00	\$	69.27	1.00	\$	69.27	1.00	\$	69.27	1.00	\$ 69.27
	\$	130.60	1.00	\$	130.60	-	\$	-		\$	-		\$	-		\$	-	1.00	\$	130.60		\$ - \$ -
Nodwells - Picker up to 17 Ton	\$	38.11 170.36		\$		-	\$	-		\$			\$	-		\$	-		\$	-		\$ -
Nodwells - Picker over 17 Ton	\$	228.25	anne y	\$	-	-	\$	-		\$			\$	-		\$	-		\$	-		\$ -
	\$	130.60		\$	-	-	\$			\$	-		\$	-		\$	-		\$	-		\$ -
Trencher 10T Tele-Handler	\$	84.36 5 3.0 0		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ - \$ -
	\$	162.23		\$		-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
LGP Highboy ROW Trailer	\$	32.45		\$		-	\$	-		\$	-		\$			\$	-		\$	-		\$ -
	\$	24.21		\$		-	\$		1.00	\$	24.21		\$	-		\$	-		\$	-		\$ -
	\$	72.10 139.05		\$		-	\$	<u>/-</u>		\$	-		\$	-		\$	-		\$	-		\$ - \$ -
	\$	139.05		\$	-	-	\$	_		\$	-		\$	-		\$	-		\$	-		\$ -
1 Drum Puller	\$	77.25		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	77.25 0.52		\$			\$	-		\$	-		\$	-		\$	-		\$	-		\$ - \$ -
	\$	160.89		\$		-	\$	-		\$	-	2.00		321.77		\$	-	1.00	\$	160.89		\$ -
Compressor	\$	22.04		\$		-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	82.40		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	103.00		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ - \$ -
Water pump	\$	40.99		\$	-	-	\$	-		\$	-	1.00	\$	40.99		\$	-	1.00	\$	40.99		\$ -
Pilot Line Winder	\$	92.70		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	17.69 46.35		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$ \$	-		\$ - \$ -
	\$	1.24		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ - \$ -
	\$	21.84		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
Hoe-Pack	\$	25.75		\$	-	-	\$	-		\$	-		\$	-		\$	-	1.00	\$	25.75		\$ -
	\$	211.07		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
	\$	206.00 56.65		\$	-	-	\$	-	1.00	\$	56.65	1.00	\$	56.65	1.00	\$	56.65	0.50	\$	28.33		\$ - \$ -
	_	17,725.89		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
Medium Lift Helicopter - Operated		3,071.98		\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$	1,905.50	5.00	\$	- 520.15	6.50	\$	245.89	3.00	\$	105.21	7.00	\$	- 542.24	5.00	\$	375.18	8.00	\$	- 526.41	2.00	\$ - 98.47
TOTAL EXCHIMENT			5.00		320.13	0.50		270.03	3.00		103.21	7.00		U74.44	5.00		313.10	0.00	<u> </u>	J2U.41	2.00	30.41
TOTAL CREW RATE				\$	1,238.95		\$	441.04		\$	328.91		\$ 1,	143.76		\$	1,002.72		\$	959.25		\$ 194.96
	_			_															_			



				23			24			25		26		1	27	
			Gro	ut C	rew	Concret		undations	Grou		esting	Sign C		HL He		oter
	_		No.		Rate	No.		Rate	No.		Rate	No.	Rate	No.		Rate
Designation Supervisor	•	Rate 142.83		\$			\$			\$			•	2.00	e	285.67
Foreman	\$			\$	-	1.00	\$	120.15		\$			\$ - \$ -	5.00	\$	600.73
Surveyor	\$			\$	-	1.00	\$			\$	-		\$ -	0.00	\$	-
Lineman	\$			\$	-		\$	-	1.00	\$	111.85		\$ -	8.00	\$	894.79
Apprentice - 4th Year	\$			\$	-		\$	-		\$	-		\$ -	8.00	\$	831.18
Apprentice - 3rd Year Apprentice - 2nd Year	\$			\$			\$	-		\$	-		\$ - \$ -	8.00	\$	767.57
Apprentice - 1st Year	\$		2.00	\$	160.08		\$	-		\$		2.00	\$ 160.08		\$	
Equipment Operator	\$			\$	-		\$	-	1.00	\$	96.49		\$ -	1.00	\$	96.49
Truck Driver / Picker Op.	\$			\$	-	1.00	\$			\$	-		\$ -	1.00	\$	107.16
Labourer	\$			\$	-	2.00	\$	174.87		\$	-		\$ -		\$	-
3rd Party Density Tester Carpenter	\$		1.00	\$	100.05	1.00	\$	100.05		\$	-		\$ - \$ -		\$	-
Telecom Foreman	\$		1.00	\$	-	1.00	\$	-		\$			\$ -		\$	-
Telecom Cable Splicer	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Included Super or Operator	\$			\$	-		\$	-		\$	-		\$ -	4.00	\$	-
none	\$	<u>-</u>		\$	-		\$	-		\$	-		\$ -		\$	-
TOTAL LABOUR			3.00		260.13	6.00		614.08	2.00		208.34	2.00	160.08	37.00		3,583.59
TOTAL LABOUR			3.00		200.13	0.00	<u> </u>	014.00	2.00		200.54	2.00	100.00	37.00	_	3,303.39
Pickup	\$		-	\$	-	2.00	\$	48.72		\$	-	2.00	\$ 48.72	2.00	\$	48.72
Crew Cab Truck	\$		1.00	\$	29.20	1.00	\$	29.20	1.00	\$	29.20		\$ -	10.00	\$	292.01
Conductor Splicing Truck OPGW Splicing Truck	\$			\$	-		\$	-		\$	-		\$ -		\$	
Picker - 17 Ton	\$			\$	-		\$	-		\$			\$ -		\$	-
Picker - 38 Ton	\$			\$		1.00	\$			\$			\$ -	1.00	\$	180.25
40T RT Crane	\$	195.70		\$	-		\$	-		\$	-		\$ -		\$	1
60T RT Crane	\$			\$	-		\$	-		\$	-		\$ -		\$	
80T RT Crane Digger - TelElect 5052	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Digger - TelElect 5052 200T All-Tr. crane	\$			\$	-		\$	-		\$			\$ - \$ -	/	\$	-
Texoma	\$			\$	-		\$	-/		\$			\$ -		\$	-
Quad or Side by Side	\$	24.21		\$	-		\$	-		\$	٦.		\$ -		\$	
120' Gene Lift	\$			\$	-		\$	/ -		\$			\$ -		\$	P-4
53' Tridem trailer	\$			\$	-		\$	-		\$	- '		\$ -		\$	-
T/A Gravel Truck T/A Rock Truck	\$			\$	-		\$	-		\$			\$ -		\$	-
Watson 1010	\$			\$	-		\$	-		\$			\$ -		\$	- /
Watson 1100	\$			\$			\$	-		\$	-		\$ -		\$	
Watson 2500	\$			\$			\$	-		\$	<u> </u>		\$ -		\$	
Soilmec SR65	\$			\$	-	_	\$	-		\$			\$ -		\$	-
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$			\$	-		\$	-		\$			\$ - \$ -		\$	-
Self-Loader	\$			\$	-		\$	-		\$	7		\$ -		\$	_
55' Bucket Truck	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Pole Trailer	\$			\$	-		\$			\$			\$ -		\$	-
Crawler Tractors 750 JD	\$			\$	-		\$	-		\$	-		\$ -		\$	-
JD 310 Back Hoe JD 554 Loader	\$			\$	-		\$	-		\$	÷		\$ -	1.00	\$	69.27
JD 290 Track-hoe	\$			\$	-		\$	-		\$	-		\$ -	1.00	\$	-
Skid-Steer Loader	\$			\$	1		\$	1		\$	-		\$ -		\$	-
Nodwells - Picker up to 17 Ton	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Nodwells - Picker over 17 Ton	\$		7	\$	-		\$	<u> </u>		\$	-		\$ - \$ -		\$	-
Nodwell - Digger Trencher	\$			\$	-		\$	-		\$	<u>- /</u>		\$ - \$ -		\$	-
10T Tele-Handler	\$			\$	-		\$	-		\$	/-		\$ -		\$	-
LGP Texoma Nodwell	\$	162.23		\$			\$	-		\$	-		\$ -		\$	-
LGP Highboy ROW Trailer	\$			\$			\$	-		\$	-		\$ -		\$	-
Quad or Side by Side Reel Trailer	\$			\$	-		\$	-	1.00	\$	24.21		\$ - \$ -		\$	-
Tensioner	\$			\$			\$	-		\$	-		\$ -		\$	-
Puller	\$			\$			\$			\$			\$ -		\$	-
1 Drum Puller	\$	77.25		\$	-		\$	-		\$	-		\$ -		\$	-
Single Tensioner	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Single Traveller	\$			\$			\$	-		\$	-		\$ - \$ -		\$	-
JD 350 LDC Excavator Compressor	\$		1.00	\$	22.04		\$	-		\$	-		\$ - \$ -		\$	-
Grout truck	\$		1.00	\$	82.40		\$	-		\$	-		\$ -		\$	-
Rock Drill	\$	103.00		\$	-		\$	-		\$	-		\$ -		\$	-
Press & Pump, Genset, Light plan	_			\$	-	0.50	\$	6.73		\$	-		\$ -		\$	-
Water pump Pilot Line Winder	\$			\$	-		\$	-		\$	-		\$ - \$ -		\$	-
Pilot Line Winder Wire Winder	\$			\$	-		\$	-		\$	-		\$ - \$ -		\$	-
Spacer Buggy	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Travellers (ea)	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Traffic Control Sign	\$			\$	-		\$	-		\$	-	2.00	\$ 43.67		\$	-
Hoe-Pack	\$			\$	-		\$	-		\$	-		\$ -		\$	-
Pile Driving Crew (per m)	\$			\$	<u> </u>		\$	-		\$	-		\$ - \$ -		\$	-
Concrete Pumper Survey Equipment	\$			\$	-	1.00	\$	56.65		\$	-		\$ - \$ -		\$	-
Heavy Lift Helicopter - Operated	\$			\$	-	50	\$	-		\$	-		\$ -	1.00	_	7,725.89
Medium Lift Helicopter - Operated	\$	3,071.98		\$	-		\$	-		\$	-		\$ -		\$	-
Light Duty Helicopter - Operated	\$	1,905.50		\$			\$	-		\$			\$ -		\$	-
TOTAL EQUIPMENT			3.00		133.64	5.50	1	321.55	2.00		53.41	4.00	92.39	15.00	1	8,316.13
TOTAL CREW RATE			İ	\$	393.78		•	935.63		\$	261.75		\$ 252.48	i	\$ 2	1,899.72
				۳	555.75		Ψ	550.05		Ψ	201.70		¥ =02.70	<u> </u>	Ψ 2	.,000.12



		-		_			1			•	1	•	ı	•					
		Camp	28 Site P	Preparation	Su	29 pervisory	Si	30 ign Crew	Flagg	31 ging Crew	Weld	32 ing Support	Roads	33 and Reclaim	Hel	34 iSockInstall	And	hor Crew	Rock
Di	D-1-	No.		Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.
Designation Supervisor	Rate \$ 142.5	33	\$	_	1.00	\$ 142.83		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	_
Foreman	\$ 120.	_				\$ -		\$ -		\$ -		\$ -	1.00	\$ 120.15		\$ -	1.00	\$ 120.15	1.00
Surveyor	\$ 111.5	_	_			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00
Lineman Apprentice - 4th Year	\$ 111.5 \$ 103.5	_	\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
Apprentice - 3rd Year	\$ 95.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$ 95.95	
Apprentice - 2nd Year	\$ 87.		\$	-		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00
Apprentice - 1st Year	\$ 80.0 \$ 96.4	_	\$			\$ -	2.00	\$ 160.08	2.00	\$ 160.08		\$ 80.04	4.00	\$ -		\$ -	4.00	\$ -	4.00
Equipment Operator Truck Driver / Picker Op.	\$ 96. \$ 107.	_	\$			\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ 96.49 \$ -	4.00	\$ 385.97 \$ -		\$ - \$ -	1.00	\$ 96.49 \$ 107.16	1.00
Labourer	\$ 87.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
3rd Party Density Tester	\$ 243.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Carpenter Talagam Faraman	\$ 100.0 \$ 87.4		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00
Telecom Foreman Telecom Cable Splicer	\$ 87.4 \$ 87.4		\$			\$ - \$ -		\$ -		\$ -		\$ -		\$ -	-	\$ - \$ -		\$ -	_
Included Super or Operator	\$ -		\$			\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$ -		\$ -	
none	\$ -		\$	-		\$ -		\$ -		\$ -		\$ -		\$ -	/ -	\$ -		\$ -	
TOTAL LABOUR		4.50	. 1	105.55		440.00		100.00		400.00	0.00	470.50	F.00	F00.40	4.00		4.00	110.75	
TOTAL LABOUR		4.50	'	465.55	1.00	142.83	2.00	160.08	2.00	160.08	2.00	176.53	5.00	506.12	1.00	-	4.00	419.75	5.00
Pickup	\$ 24.	1.00	\$	24.36	1.00	\$ 24.36	2.00	\$ 48.72	2.00	\$ 48.72		\$ -	1.00	\$ 24.36		\$ -		\$ -	2.00
Crew Cab Truck	\$ 29.	1.00	\$	29.20		\$ -		\$ -		\$ -	1.00	\$ 29.20	1.00	\$ 29.20		\$ -	1.00	\$ 29.20	1.00
Conductor Splicing Truck	\$ 46.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
OPGW Splicing Truck Picker - 17 Ton	\$ 93.0 \$ 136.0	_	\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	_	\$ - \$ -		\$ - \$ -		\$ - \$ -	
Picker - 38 Ton	\$ 180.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
40T RT Crane	\$ 195.	70	\$	-		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
60T RT Crane	\$ 247.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
80T RT Crane Digger - TelElect 5052	\$ 345.0 \$ 89.4	_	\$			\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 89.40		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 89.40	
200T All-Tr. crane	\$ 418.		\$			\$ -		\$ -		\$ -	1.00	\$ -		\$ -		\$ -	1.00	\$ -	÷
Texoma	\$ 162.	_	\$			\$ -		\$ - 4		\$ -		\$ -		\$ -		\$ -		\$ -	
Quad or Side by Side	\$ 24.	_	\$			\$ -		\$ -	_	\$ -		\$ -		\$ -		\$ -		\$ -	
120' Gene Lift	\$ 87.5 \$ 11.5	_	\$			\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
53' Tridem trailer T/A Gravel Truck	\$ 68.	_	\$			\$ -		\$ - \$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
T/A Rock Truck	\$ 121.0	_	_			\$ -		\$ -		\$ -		\$ -	1.00	\$ 121.67		\$ -		\$ -	
Watson 1010	\$ 190.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Watson 1100	\$ 247.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Watson 2500 Soilmec SR65	\$ 309.0 \$ 437.7		\$	_		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	_
Tractor Trailer/Picker	\$ 134.0		\$		-	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Tractor Trailer (Heavy)	\$ 134.	67	\$	-		\$ -		\$ -/		\$ -	le le	\$ -		\$ -		\$ -		\$ -	
Self-Loader	\$ 134.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	4
55' Bucket Truck Pole Trailer	\$ 81. \$ 22.	_	\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
	\$ 165.	_	_			\$ -		\$ -		\$ -		\$ -	1.00	\$ 165.83		\$ -		\$ -	
JD 310 Back Hoe	\$ 68.	3	\$	-		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
JD 554 Loader	\$ 69.3		\$			\$ -		\$ -		\$ -		\$ -	1.00	\$ 69.27		\$ -		\$ -	
JD 290 Track-hoe Skid-Steer Loader	\$ 130.0 \$ 38.	_	\$			\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -	1.00	\$ 130.60 \$ -		\$ - \$ -		\$ - \$ -	1.00
Nodwells - Picker up to 17 Ton	\$ 170.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Nodwells - Picker over 17 Ton	\$ 228.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Nodwell - Digger	\$ 130.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	-	\$ -	
Trencher 10T Tele-Handler	\$ 84.3 \$ 5 3.4		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
LGP Texoma Nodwell	\$ 162.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
LGP Highboy ROW Trailer	\$ 32.	15	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Quad or Side by Side	\$ 24.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Reel Trailer Tensioner	\$ 72. \$ 139.	_	\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
Puller	\$ 139.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
1 Drum Puller	\$ 77.	25	\$	-		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Single Tensioner	\$ 77.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Single Traveller JD 350 LDC Excavator	\$ 0.5 \$ 160.5		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 160.89	
Compressor	\$ 22.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$ -	1.00
Grout truck	\$ 82.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00
Rock Drill	\$ 103.		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00
		_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	1.00
Water pump Pilot Line Winder	\$ 40.5 \$ 92.7		\$	_		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
Wire Winder	\$ 17.	_	\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	_
Spacer Buggy	\$ 46.	35	\$	-		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Travellers (ea)	\$ 1.3	_	\$			\$ -	0.71	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Traffic Control Sign Hoe-Pack	\$ 21.5 \$ 25.7		\$			\$ - \$ -	2.00	\$ 43.67 \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
Pile Driving Crew (per m)	\$ 211.0		\$			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	
Concrete Pumper	\$ 206.	00	\$	-		\$ -		\$ -	-	\$ -		\$ -		\$ -		\$ -		\$ -	
Survey Equipment	\$ 56.					\$ -		\$ -	-	\$ -		\$ -		\$ -		\$ -		\$ -	1.00
	\$ 17,725.		\$			\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	
Medium Lift Helicopter - Operated Light Duty Helicopter - Operated	\$ 3,071.5 \$ 1,905.5		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -		\$ -	1.00	\$ - \$ 1,905.50		\$ - \$ -	
TOTAL EQUIPMENT	.,	5.50		499.99	1.00	24.36	4.00	92.39	2.00	48.72	2.00	118.60	6.00	540.93	1.00	1,905.50	3.00	279.49	8.00
			_			1 -						1 -			1	1			
TOTAL CREW RATE			\$	965.54		\$ 167.19		\$ 252.48		\$ 208.80		\$ 295.14		#######		\$ 1,905.50	1	\$ 699.24	1



		36	6		37	7		38	В		3	9		4	0		41	$\overline{}$
		_	ndations		_	verter		Tag	g Crew		_	nstall			Erection		ver P	Plumb
Designation	Rate		Rate	No.		Rate	No.	-	Rate	No.		Rate	No.		Rate	No.		Rate
Supervisor	\$ 142.83	\$			\$	-	1.00	\$	142.83		\$	-		\$	-		\$	
Foreman	\$ 120.15	\$	120.15	1.00	\$	120.15	1.00	\$		1.00	\$	120.15	1.00	\$	120.15	1.00	\$	120.15
Surveyor	\$ 111.85	\$	111.85		\$	-		\$	-	0.50	\$	55.92		\$	-	1.00	\$	111.85
Lineman Apprentice - 4th Year	\$ 111.85 \$ 103.90	\$	-		\$	-	1.00	\$	111.85	2.00	\$	223.70	1.00	\$	111.85 103.90	1.00	\$	111.85
Apprentice - 3rd Year	\$ 95.95	\$	-		\$	-		\$	-	2.00	\$	191.89	2.00	\$	191.89	2.00	\$	191.89
Apprentice - 2nd Year	\$ 87.99	\$	87.99	2.00	\$	175.99	1.00	\$	87.99		\$	-	1.00	\$	87.99	2.00	\$	175.99
Apprentice - 1st Year	\$ 80.04	\$	-		\$	-		\$	-		\$	-	1.00	\$	80.04		\$	-
Equipment Operator Truck Driver / Picker Op.	\$ 96.49 \$ 107.16	\$	96.49	2.00	\$	214.32		\$	-	1.00	\$	96.49 107.16	1.00	\$	96.49 107.16		\$	-
Labourer	\$ 87.44	\$	-	2.00	\$	174.87		\$	-	1.00	\$	-	1.00	\$	-		\$	-
3rd Party Density Tester	\$ 243.80	\$	-		\$	-		\$	-		\$	-		\$	-		\$	/-
Carpenter	\$ 100.05	\$	100.05		\$	-		\$	-		\$	-		\$	-		\$	-
Telecom Foreman Telecom Cable Splicer	\$ 87.44 \$ 87.44	\$	-		\$			\$			\$	-		\$	-		\$	-
Included Super or Operator	\$ -	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
none	\$ -	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
T0T41 400110		_				225.22	4.00		100.00		_	705.04			000 17	= 00		
TOTAL LABOUR			516.53	7.00		685.33	4.00	<u> </u>	462.82	7.50		795.31	9.00		899.47	7.00	_	711.72
Pickup	\$ 24.36	\$	48.72	1.00	\$	24.36		\$	-	0.50	\$	12.18	1.00	\$	24.36	1.00	\$	24.36
Crew Cab Truck	\$ 29.20	\$	29.20	1.00	\$	29.20	1.00	\$	29.20	2.00	\$	58.40	2.00	\$	58.40	2.00	\$	58.40
Conductor Splicing Truck	\$ 46.02	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
OPGW Splicing Truck Picker - 17 Ton	\$ 93.60 \$ 136.27	\$	-		\$	-		\$	-		\$			\$	-		\$	<u> </u>
Picker - 38 Ton	\$ 180.25	\$	-	1.00	\$	180.25		\$	-	1.00	\$	180.25		\$	-		\$	-\
40T RT Crane	\$ 195.70	\$	-		\$	-		\$	-		\$	-		\$			\$	- "
60T RT Crane 80T RT Crane	\$ 247.20 \$ 345.05	\$	-		\$	-		\$	-		\$	-	1.00	\$	345.05		\$	-
Digger - TelElect 5052	\$ 345.05 \$ 89.40	\$	-		\$	-		\$			\$		1.00	\$	345.05		\$	-
200T All-Tr. crane	\$ 418.72	\$	-		\$	-		\$			\$	<u> </u>		\$	-	1	\$	-
Texoma	\$ 162.23	\$	-		\$	-		\$	/ -	-	\$	į		\$			\$	-
Quad or Side by Side 120' Gene Lift	\$ 24.21 \$ 87.55	\$	-		\$	-		\$	-		\$	·		\$	-		\$	
53' Tridem trailer	\$ 11.85	\$	-		\$			\$			\$	-		\$	-		\$	
T/A Gravel Truck	\$ 68.13	\$	-		\$	- /		\$	-		\$			\$	- 1		\$	-
T/A Rock Truck	\$ 121.67	\$	-		\$			\$	-		\$	-	\	\$			\$	-
Watson 1010 Watson 1100	\$ 190.55 \$ 247.20	\$			\$			\$	-		\$	-		\$			\$	-
Watson 2500	\$ 309.00	\$			\$		4	\$			\$	-		\$			\$	-/
Soilmec SR65	\$ 437.75	\$	-		\$			\$			\$	-	4	\$			\$	-
Tractor Trailer/Picker	\$ 134.67	\$			\$	_=		\$	-		\$			\$	T.		\$	-
Tractor Trailer (Heavy) Self-Loader	\$ 134.67 \$ 134.67	\$	_ -		\$	-		\$	-		\$			\$	-		\$	-
55' Bucket Truck	\$ 81.11	\$			\$	-		\$	-		\$		_	\$	-		\$	-
Pole Trailer	\$ 22.04	\$	-		\$	-		\$	-		\$	7		\$	/		\$	-
Crawler Tractors 750 JD	\$ 165.83	\$			\$	-	_	\$	-	_	\$	-		\$			\$	-
JD 310 Back Hoe JD 554 Loader	\$ 68.13 \$ 69.27	\$	4		\$	-		\$	-	1.00	\$	69.27	_	\$	-		\$	-
JD 290 Track-hoe	\$ 130.60	\$	130.60		\$	-		\$	-	1.00	\$	-	1.00	\$	130.60		\$	-
Skid-Steer Loader	\$ 38.11	\$	-		\$	-		\$	\		\$	-		\$	-		\$	-
Nodwells - Picker up to 17 Ton	\$ 170.36	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
Nodwells - Picker over 17 Ton Nodwell - Digger	\$ 228.25 \$ 130.60	\$	-		\$			\$			\$			\$	-		\$	
Trencher	\$ 84.36				\$	-		\$	7		\$	-		\$	-		\$	-
10T Tele-Handler	\$ 53.00	\$	-		\$	-		\$	-		\$	-		\$	•		\$	-
LGP Texoma Nodwell	\$ 162.23	\$	-	-	\$	-		\$	-		\$	-		\$	-		\$	-
LGP Highboy ROW Trailer Quad or Side by Side	\$ 32.45 \$ 24.21	\$		2.00	\$	48.41	2.00	\$	48.41	1.00	\$	24.21	1.00	\$	24.21	2.00	\$	48.41
Reel Trailer	\$ 72.10	\$	7.		\$	-		\$			\$			\$	-		\$	-
Tensioner	\$ 139.05	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
Puller 1 Drum Puller	\$ 139.05 \$ 77.25	\$	-		\$	-		\$	-	1.00	\$	- 77 25		\$	-		\$	-
Single Tensioner	\$ 77.25 \$ 77.25	\$			\$	-		\$	-	1.00	\$	77.25 -		\$	-		\$	-
Single Traveller	\$ 0.52	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
JD 350 LDC Excavator	\$ 160.89	\$	-		\$			\$	-		\$	-		\$	-		\$	-
Compressor Grout truck	\$ 22.04 \$ 82.40	\$	22.04		\$	-		\$	-		\$	-		\$	-		\$	-
Rock Drill	\$ 103.00	\$	103.00		\$	-		\$	-		\$	-		\$	-		\$	-
Press & Pump, Genset, Light plant	\$ 13.46	\$	13.46		\$	-		\$	-	1.00	\$	13.46		\$	-	1.00	\$	13.46
Water pump	\$ 40.99	\$			\$	-		\$	-		\$			\$	-		\$	-
Pilot Line Winder Wire Winder	\$ 92.70 \$ 17.69	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
Spacer Buggy	\$ 46.35	\$	-	2.00	\$	92.70		\$	-		\$	-		\$	-		\$	-
Travellers (ea)	\$ 1.24	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
Traffic Control Sign	\$ 21.84	\$	-		\$	-		\$	-		\$			\$	-		\$	-
Hoe-Pack Pile Driving Crew (per m)	\$ 25.75 \$ 211.07	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
Concrete Pumper	\$ 206.00	\$			\$			\$			\$	-		\$	-		\$	-
Survey Equipment	\$ 56.65	\$	56.65		\$	-		\$	-	0.50	\$	28.33		\$	-	1.00	\$	56.65
Heavy Lift Helicopter - Operated	\$ 17,725.89	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
Medium Lift Helicopter - Operated Light Duty Helicopter - Operated	\$ 3,071.98 \$ 1,905.50	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
TOTAL EQUIPMENT	,500.00	L.	403.67	7.00	Ľ	374.92	3.00	Ľ	77.61	8.00	Ψ	463.34	6.00	Ľ	582.62	7.00	_	201.28
		1 -		1			1			1								
TOTAL CREW RATE		\$	920.20		\$1	,060.25		\$	540.43		\$	1,258.65		\$	1,482.09		\$	913.00



	ĺ		42		43	ı	44		1	45			46	1	47	ı	48
			GW Splice		erpoise Instal		A Acc	ount			Setup		mp Haul		e Slack String		Assembly
Designation	Rate	No.	Rate	No.	Rate	No.		Rate	No.	H	Rate	No.	Rate	No.	Rate	No.	Rate
Supervisor	\$ 142.83		\$ -		\$ -		\$	-	1.00	\$	142.83		\$ -	1.00	\$ 142.83		\$ -
Foreman	\$ 120.15 111.85		\$ - \$ -	1.00	\$ 120.15		\$	-	1.00 0.50	\$	120.15 55.92		\$ - \$ -	2.00	\$ 240.29	1.00	\$ 120.15 \$ -
Surveyor Lineman	\$ 111.85		\$ -	1.00	\$ 111.85 \$ -		\$	-	1.00	\$	111.85		\$ -	7.00	\$ - \$ 782.94	1.00	\$ 111.85
Apprentice - 4th Year	\$ 103.90		\$ -		\$ -		\$	-		\$	-		\$ -		\$ -		\$ -
Apprentice - 3rd Year	\$ 95.95		\$ -		\$ -		\$	-		\$	-		\$ -	4.00	\$ 383.78	1.00	\$ 95.95
Apprentice - 2nd Year Apprentice - 1st Year	\$ 87.99 80.04		\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ - \$ -		\$ - \$ -		\$ -
Equipment Operator	\$ 96.49		\$ -	2.00	\$ 192.99		\$	-	2.00	\$	192.99		\$ -	4.00	\$ 385.97	1.00	\$ 96.49
Truck Driver / Picker Op.	\$ 107.16		\$ -		\$ -		\$	-	1.00	\$	107.16	1.00	\$ 107.16	6.00	\$ 642.97	1.00	\$ 107.16
Srd Party Density Tester	\$ 87.44 243.80		\$ - \$ -		\$ - \$ -		\$	-	3.00	\$	262.31		\$ - \$ -		\$ - \$ -		\$ - \$ -
Carpenter	\$ 100.05		\$ -		\$ -		\$	-	3.00	\$	300.15		\$ -		\$ -		\$ -
Telecom Foreman	\$ 87.44	1.00	\$ 87.44		\$ -		\$	-		\$	-		\$ -		\$ -		\$ -
Telecom Cable Splicer Included Super or Operator	\$ 87.44 -	1.00	\$ 87.44 \$ -		\$ - \$ -	1.00	\$	-		\$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
none	\$ -		\$ -		\$ -	1100	\$	-		\$			\$ -		\$ -		\$ -
TOTAL LABOUR		2.00	174.87	4.00	424.98	1.00		-	12.50	<u> </u>	1,293.35	1.00	107.16	24.00	2,578.79	5.00	531.60
Pickup	\$ 24.36	-	\$ -	1.00	\$ 24.36		\$	_	1.00	\$	24.36		\$ -	2.00	\$ 48.72		\$ -
Crew Cab Truck	\$ 29.20	1.00	\$ 29.20	1.00	\$ 29.20		\$	-	2.00	\$	58.40		\$ -	7.00	\$ 204.40	1.00	\$ 29.20
Conductor Splicing Truck OPGW Splicing Truck	\$ 46.02 93.60	1.00	\$ - \$ 93.60		\$ - \$ -		\$	-		\$	-		\$ - \$ -	1.00	\$ 46.02 \$ -		\$ - \$ -
Picker - 17 Ton	\$ 136.27	1.00	\$ 93.60		\$ -		\$	-		\$	-		\$ -	- \	\$ -	1.00	\$ 136.27
Picker - 38 Ton	\$ 180.25		\$ -		\$ -		\$	-		\$	-		\$ -	-	\$ -		\$ -
40T RT Crane	\$ 195.70 247.20		\$ - \$ -		\$ - \$ -		\$	-	1.00	\$	195.70		\$ - \$ -	1.00	\$ 195.70 \$ -		\$ -
60T RT Crane 80T RT Crane	\$ 345.05		\$ -		\$ -		\$	-		\$	-		\$ -		\$ -		\$ -
Digger - TelElect 5052	\$ 89.40		\$ -		\$ -		\$	<u> </u>		\$	-		\$ -	1.00	\$ 89.40		\$ -
200T All-Tr. crane	\$ 418.72		\$ -		\$ -		\$	-		\$	-		\$ -		\$ -		\$
Texoma Quad or Side by Side	\$ 162.23 24.21		\$ - \$ -		\$ - \$ -		\$	-	-	\$	-	-	\$ - \$ -		\$ - \$ -		\$ -
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$	-		\$	-		\$ -		\$ -		\$ -
53' Tridem trailer	\$ 11.85		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
T/A Gravel Truck T/A Rock Truck	\$ 68.13 121.67		\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ -		\$ - \$ -		\$ - \$ -
Watson 1010	\$ 190.55		\$ -		\$ -		\$			\$			\$ -		\$ -		\$ -
Watson 1100	\$ 247.20		\$ -		\$ -		\$	_		\$		\	\$ -		\$ -		\$ -
Watson 2500 Soilmec SR65	\$ 309.00 437.75		\$ - \$ -		\$ -		\$	-		\$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Tractor Trailer/Picker	\$ 134.67		\$ -		\$ -		\$	-	1.00	\$	134.67		\$ -	-	\$ -		\$ -
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$ -		\$	-		\$		1.00	\$ 134.67	2.00	\$ 269.35		\$ -
Self-Loader 55' Bucket Truck	\$ 134.67 81.11		\$ - \$ -		\$ -		\$			\$	-		\$ -		\$ - \$ -		\$ - \$ -
Pole Trailer	\$ 22.04		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Crawler Tractors 750 JD	\$ 165.83		\$ -		\$ -		\$	- '	1.00	\$	165.83		\$ -	2.00	\$ 331.66		\$ -
JD 310 Back Hoe JD 554 Loader	\$ 6 8.13		\$ - \$ -		\$ - \$ -		\$	-	1.00	\$	69.27		\$ - \$ -	1.00	\$ - \$ 69.27		\$ - \$ -
JD 290 Track-hoe	\$ 130.60		\$ -		\$ -		\$	-	1.00	\$	130.60		\$ -	1.00	\$ 130.60		\$ -
Skid-Steer Loader	\$ 38.11		\$ -		\$ -		\$	<u> </u>		\$			\$ -		\$ -		\$ -
Nodwells - Picker up to 17 Ton	\$ 170.36 228.25	Manage Control	\$ - \$ -		\$ - \$ -		\$			\$			\$ -	2.00	\$ - \$ 456.50		\$ -
Nodwell - Digger	\$ 130.60		\$ -	1.00	\$ 130.60		\$	7-		\$	-		\$ -	2.00	\$ -		\$ -
Trencher	\$ 84.36		\$ -	1.00	\$ 84.36		\$			\$	-		\$ -		\$ -		\$ -
10T Tele-Handler LGP Texoma Nodwell	\$ 53.00 162.23		\$ - \$ -		\$ - \$ -		\$	-		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -
LGP Highboy ROW Trailer	\$ 32.45		\$ -		\$ -		\$	-/		\$	-		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$			\$			\$ -	0.00	\$ -		\$ -
Reel Trailer Tensioner	\$ 72.10 139.05		\$ - \$ -		\$ - \$ -		\$	-		\$			\$ - \$ -	2.00	\$ 144.20 \$ -		\$ - \$ -
Puller	\$ 139.05		\$ -		\$ -		\$	-		\$	-		\$ -		\$ -		\$ -
1 Drum Puller	\$ 77.25		\$ -		\$ -		\$	-		\$			\$ -		\$ - \$ -		\$ -
Single Tensioner Single Traveller	\$ 77.25 0.52		\$ - \$ -		\$ -		\$	-		\$			\$ - \$ -	150.00	\$ - \$ 77.25		\$ - \$ -
JD 350 LDC Excavator	\$ 160.89		\$ -		\$ -		\$	-		\$			\$ -	100.00	\$ -		\$ -
Compressor	\$ 22.04		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Grout truck Rock Drill	\$ 82.4 0 103.00		\$ - \$ -		\$ - \$ -		\$	-		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -
Press & Pump, Genset, Light plant	13.46	_	\$ -		\$ -		\$	-		\$			\$ -	1.00	\$ 13.46	1.00	\$ 13.46
Water pump	\$ 40.99		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Pilot Line Winder Wire Winder	\$ 92.70 17.69		\$ - \$ -		\$ - \$ -		\$	-		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -
Spacer Buggy	\$ 46.35		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Travellers (ea)	\$ 1.24		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Traffic Control Sign Hoe-Pack	\$ 21.84 25.75		\$ - \$ -		\$ - \$ -		\$	-		\$			\$ - \$ -		\$ - \$ -		\$ - \$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Concrete Pumper	\$ 206.00		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Survey Equipment Heavy Lift Helicopter - Operated	\$ 56.65 17,725.89		\$ - \$ -	1.00	\$ 56.65 \$ -		\$	-	0.50	\$	28.33		\$ - \$ -		\$ - \$ -		\$ - \$ -
	\$ 3,071.98		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
Light Duty Helicopter - Operated	\$ 1,905.50		\$ -		\$ -		\$	-		\$			\$ -		\$ -		\$ -
TOTAL EQUIPMENT		2.00	122.80	5.00	325.17	-	1	-	8.50	1	807.16	1.00	134.67	173.00	2,076.53	3.00	178.93
TOTAL CREW RATE			\$ 297.67		\$ 750.15	1	\$	-		\$	2,100.51		\$ 241.83	I	\$ 4,655.32		\$ 710.52
							<u> </u>		•		-			-			



Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	Rate \$ 142.83 \$ 120.15 \$ 111.85 \$ 111.85 \$ 103.90 \$ 95.95 \$ 87.99 \$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 243.80 \$ 34	1.00 1.00 1.00 2.00	Rate S -	No. 1.00 3.00 2.00 2.00 2.00 2.00 2.00	\$ - \$ 120.15 \$ - \$ 335.55 \$ 207.79 \$ 191.89 \$ 175.99 \$ 192.99 \$ 214.32	No.	Rate \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
Supervisor Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 3rd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 142.83 \$ 120.15 \$ 111.85 \$ 111.85 \$ 103.90 \$ 95.95 \$ 87.99 \$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44	1.00 1.00 1.00	\$ - \$ 120.15 \$ - \$ 111.85 \$ 103.90 \$ - \$ - \$ - \$ 214.32 \$ - \$ -	1.00 3.00 2.00 2.00 2.00	\$ - \$ 120.15 \$ - \$ 335.55 \$ 207.79 \$ 191.89 \$ 175.99 \$ - \$ 192.99	No.	\$ - \$ - \$ - \$ - \$ - \$ -
Supervisor Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 3rd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 142.83 \$ 120.15 \$ 111.85 \$ 111.85 \$ 103.90 \$ 95.95 \$ 87.99 \$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44	1.00	\$ 120.15 \$ - \$ 111.85 \$ 103.90 \$ - \$ - \$ - \$ 96.49 \$ 214.32 \$ -	3.00 2.00 2.00 2.00 2.00	\$ 120.15 \$ - \$ 335.55 \$ 207.79 \$ 191.89 \$ 175.99 \$ - \$ 192.99		\$ - \$ - \$ - \$ - \$ - \$ -
Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 3rd Year Apprentice - 3rd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 111.85 \$ 111.85 \$ 103.90 \$ 95.95 \$ 87.99 \$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44	1.00	\$ \$ 111.85 \$ 103.90 \$ \$ \$ 96.49 \$ 214.32 \$	3.00 2.00 2.00 2.00 2.00	\$ - \$ 335.55 \$ 207.79 \$ 191.89 \$ 175.99 \$ - \$ 192.99		\$ - \$ - \$ - \$ -
Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 2nd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 111.85 \$ 103.90 \$ 95.95 \$ 87.99 \$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44	1.00	\$ 111.85 \$ 103.90 \$ - \$ - \$ - \$ 96.49 \$ 214.32 \$ - \$ -	2.00 2.00 2.00 2.00	\$ 335.55 \$ 207.79 \$ 191.89 \$ 175.99 \$ - \$ 192.99		\$ - \$ - \$ -
Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 103.90 \$ 95.95 \$ 87.99 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44	1.00	\$ 103.90 \$ - \$ - \$ 96.49 \$ 214.32 \$ - \$ -	2.00 2.00 2.00 2.00	\$ 207.79 \$ 191.89 \$ 175.99 \$ - \$ 192.99		\$ - \$ - \$ -
Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 95.95 \$ 87.99 \$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 243.80	1.00	\$ - \$ - \$ 96.49 \$ 214.32 \$ - \$ -	2.00 2.00 2.00	\$ 191.89 \$ 175.99 \$ - \$ 192.99		\$ - \$ -
Apprentice - 1st Year Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 80.04 \$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44		\$ - \$ 96.49 \$ 214.32 \$ - \$ -	2.00	\$ - \$ 192.99		_
Equipment Operator Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 96.49 \$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44		\$ 96.49 \$ 214.32 \$ - \$ -		\$ 192.99		
Truck Driver / Picker Op. Labourer 3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 107.16 \$ 87.44 \$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44		\$ 214.32 \$ - \$ -				\$ - \$ -
3rd Party Density Tester Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 243.80 \$ 100.05 \$ 87.44 \$ 87.44 \$ -		\$ -		\$ Z14.3Z		\$ -
Carpenter Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 100.05 \$ 87.44 \$ 87.44 \$ -				\$ -		\$ -
Telecom Foreman Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 87.44 \$ 87.44 \$ -		\$ -		\$ -		\$ -
Telecom Cable Splicer Included Super or Operator none TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck	\$ 87.44 \$ -		\$ -		\$ -		\$ - \$ -
TOTAL LABOUR Pickup Crew Cab Truck Conductor Splicing Truck			\$ -		\$ -		\$ -
Pickup Crew Cab Truck Conductor Splicing Truck	\$ -		\$ -		\$ -		\$ -
Pickup Crew Cab Truck Conductor Splicing Truck			\$ -		\$ -		\$ -
Pickup Crew Cab Truck Conductor Splicing Truck		6.00	646.71	14.00	1,438.68	-	-
Crew Cab Truck Conductor Splicing Truck	_						
Conductor Splicing Truck	\$ 24.36 \$ 29.20	2.00	\$ - \$ 58.40	1.00 3.00	\$ 24.36 \$ 87.60		\$ - \$ -
	\$ 29.20 \$ 46.02	2.00	\$ 58.40	3.00	\$ 87.60 \$ -		\$ -
	\$ 93.60		\$ -		\$ -		\$ -
	\$ 136.27		\$ -		\$ -		\$ -
	\$ 180.25 \$ 195.70	1.00	\$ - \$ 195.70	2.00	\$ 360.50 \$ -		\$ - \$ -
	\$ 247.20	1.00	\$ 195.70		\$ -		\$ -
80T RT Crane	\$ 345.05		\$ -		\$ -		\$ -
	\$ 89.40	-	\$ -	-	\$ -		\$ -
	\$ 418.72 \$ 162.23		\$ - \$ -		\$ - \$ -		\$ - \$ -
	\$ 24.21		\$ -		\$ -		\$ -
	\$ 87.55		\$ -		\$ -		\$ -
	\$ 11.85	4.00	\$ -		\$ -		\$ -
	\$ 68.13 \$ 121.67	1.00	\$ 68.13		\$ -		\$ - \$ -
	\$ 190.55		\$ -		\$ -		\$ -
Watson 1100	\$ 247.20	-	\$ -		\$ -		\$ -
	\$ 309.00 \$ 437.75		\$ - \$ -		\$ - \$ -		\$ - \$ -
	\$ 437.75 \$ 134.67		\$ -		\$ - \$ -		\$ -
	\$ 134.67		\$ -		\$ -		\$ -
	\$ 134.67		\$ -		\$ -		\$ -
	\$ 81.11 \$ 22.04		\$ - \$ -		\$ -		\$ - \$ -
	\$ 165.83		\$ -		\$ -		\$ -
	\$ 68.13		\$ -	1.00	\$ 68.13		\$ -
	\$ 69.27	4.00	\$ -	4.00	\$ -		\$ -
	\$ 130.60 \$ 38.11	1.00	\$ 130.60 \$ -	1.00	\$ 130.60 \$ -		\$ - \$ -
	\$ 170.36		\$ -		\$ -		\$ -
	\$ 228.25	Sharen y	\$ -		\$ -		\$ -
	\$ 130.60		\$ -		\$ -		\$ - \$ -
	\$ 84.36 \$ 5 3.0 0	-	\$ -		\$ -		\$ - \$ -
	\$ 162.23		\$ -		\$ -		\$ -
	\$ 32.45		\$ -		\$ -		\$ -
	\$ 24.21 \$ 72.10		\$ - \$ -	1.00	\$ - \$ 72.10		\$ - \$ -
	\$ 139.05		\$ -	1.00	\$ 72.10		\$ -
Puller	\$ 139.05	À	\$ -		\$ -		\$ -
	\$ 77.25		\$ -	-	\$ -		\$ -
	\$ 77.25 \$ 0.52		\$ - \$ -		\$ -		\$ - \$ -
	\$ 160.89		\$ -		\$ -		\$ -
Compressor	\$ 22.04		\$ -		\$ -		\$ -
	\$ 82.40	1.00	\$ -		\$ -		\$ -
	\$ 103.00 \$ 13.46	1.00	\$ 103.00 \$ 13.46	1.00	\$ - \$ 13.46		\$ - \$ -
	\$ 40.99		\$ -		\$ -		\$ -
Pilot Line Winder	\$ 92.70		\$ -		\$ -		\$ -
	\$ 17.69 \$ 46.35		\$ -		\$ - \$ -		\$ - \$ -
	\$ 46.35 \$ 1.24		\$ - \$ -	200.00	\$ -		\$ - \$ -
	\$ 21.84		\$ -		\$ -		\$ -
	\$ 25.75		\$ -		\$ -		\$ -
<u> </u>	\$ 211.07		\$ -		\$ -		\$ -
	\$ 206.00 \$ 56.65		\$ - \$ -		\$ -		\$ - \$ -
	\$ 17,725.89		\$ -		\$ -		\$ -
	\$ 3,071.98		\$ -		\$ -		\$ -
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$ 1,905.50	7.00	\$ - 569.30	210.00	1,003.96	-	\$ - -
			230.00		.,000.00		
TOTAL CREW RATE			########		########		\$ -



Based On 11.0 Hours per Day
7.0 Days per Week
77.0 Hour Week

Watard	

								77.0	Hour Week			Daily Liv	ing Allowance	\$ -	Assumes 0% no	LA					
												-	LA For	7	days / week			ST &	OT Rates		
В	Blende	d Hourly	Unloade	ed Hourly Ra	ate		Loaded Hourly Rate	Ho	ours Per Wee	ek	Wag	e Cost		Weekly Living	Weekly Cost	Blended Co	ost Per Hour	c/w Sı	stenance		
	R	ate	ST	<u>OT</u>	DT	Multiplier	ST OT DT	ST	OT	DT ST	OT	DT	<u>Total</u>	Cost	Total	Hours	Cost		<u>ST</u>	<u> </u>	<u>DT</u>
Personnel Rates																					
Supervisor	\$	142.83	109.19	163.13	217.18	1.00 \$	109.19 \$ 163.13 \$ 217.18	3 40.0	26.0	11.0 \$ 4,367.66	\$ 4,241.44	\$ 2,389.00	\$ 10,998.11	\$ -	\$ 10,998.11	77.0 \$	142.83	Supervisor	\$ 109.19	\$ 163.13	\$ 217.18
Senior Foreman	\$	131.69	100.67	150.40	200.23	1.00 \$	100.67 \$ 150.40 \$ 200.23	3 40.0	26.0	11.0 \$ 4,026.80	\$ 3,910.42	\$ 2,202.56	\$ 10,139.77	\$ -	\$ 10,139.77	77.0 \$	131.69	Senior Foreman	\$ 100.67	\$ 150.40	\$ 200.23
Foreman	\$	120.15	99.28	132.75	166.23	1.00 \$	99.28 \$ 132.75 \$ 166.23	3 40.0	26.0	11.0 \$ 3,971.20	\$ 3,451.60	\$ 1,828.51	\$ 9,251.31	\$ -	\$ 9,251.31	77.0 \$	120.15	Foreman	\$ 99.28	\$ 132.75	\$ 166.23
Sub-Foreman \$	\$	117.18	97.02	129.36	161.71	1.00 \$	97.02 \$ 129.36 \$ 161.7	1 40.0	26.0	11.0 \$ 3,880.83	\$ 3,363.49	\$ 1,778.80	\$ 9,023.12	\$ -	\$ 9,023.12	77.0 \$	117.18	Sub-Foreman	\$ 97.02	\$ 129.36	\$ 161.71
Surveyor	\$	111.85	92.95	123.26	153.58	1.00 \$	92.95 \$ 123.26 \$ 153.58	3 40.0	26.0	11.0 \$ 3,718.16	\$ 3,204.88	\$ 1,689.33	\$ 8,612.37	\$ -	\$ 8,612.37	77.0 \$	111.85	Surveyor	\$ 92.95	\$ 123.26	\$ 153.58
Lineman	\$	111.85	92.95	123.26	153.58	1.00 \$	92.95 \$ 123.26 \$ 153.58	3 40.0	26.0	11.0 \$ 3,718.16	\$ 3,204.88	\$ 1,689.33	\$ 8,612.37	\$ -	\$ 8,612.37	77.0 \$	111.85	Lineman	\$ 92.95	\$ 123.26	\$ 153.58
Apprentice - 4th Year	\$	103.90	86.89	114.17	141.45	1.00 \$	86.89 \$ 114.17 \$ 141.49	5 40.0	26.0	11.0 \$ 3,475.67	\$ 2,968.46	\$ 1,555.96	\$ 8,000.09	\$ -	\$ 8,000.09	77.0 \$	103.90	Apprentice - 4th Year	\$ 86.89	\$ 114.17	\$ 141.45
Apprentice - 3rd Year	\$	95.95	80.83	105.08	129.33	1.00 \$	80.83 \$ 105.08 \$ 129.3	3 40.0	26.0	11.0 \$ 3,233.18	\$ 2,732.04	\$ 1,422.60	\$ 7,387.81	\$ -	\$ 7,387.81	77.0 \$		Apprentice - 3rd Year	\$ 80.83	\$ 105.08	\$ 129.33
Apprentice - 2nd Year	\$	87.99	74.77	95.99	117.20	1.00 \$	74.77 \$ 95.99 \$ 117.20	40.0	26.0	11.0 \$ 2,990.70	\$ 2,495.61	\$ 1,289.23	\$ 6,775.54	\$ -	\$ 6,775.54	77.0 \$	87.99	Apprentice - 2nd Year	\$ 74.77	\$ 95.99	\$ 117.20
Apprentice - 1st Year	\$	80.04	68.71	86.89	105.08	1.00 \$	68.71 \$ 86.89 \$ 105.08	3 40.0	26.0	11.0 \$ 2,748.21	\$ 2,259.19	\$ 1,155.86	\$ 6,163.26	\$ -	\$ 6,163.26			Apprentice - 1st Year	\$ 68.71	\$ 86.89	\$ 105.08
Equipment Operator	\$	96.49	78.91	107.12	135.32	1.00 \$	78.91 \$ 107.12 \$ 135.33	2 40.0	26.0	11.0 \$ 3,156.41	\$ 2,785.00	\$ 1,488.53	\$ 7,429.93	\$ -	\$ 7,429.93	7 7.0 \$	96.49	Equipment Operator	\$ 78.91	\$ 107.12	\$ 135.32
Truck Driver / Picker Op.	\$	107.16	87.04	119.32	151.59	1.00 \$	87.04 \$ 119.32 \$ 151.59	9 40.0	26.0	11.0 \$ 3,481.75	\$ 3,102.21	\$ 1,667.46	\$ 8,251.42	\$ -	\$ 8,251.42	77.0 \$	107.16	Truck Driver / Picker Op	\$ 87.04	\$ 119.32	\$ 151.59
Labourer	\$	87.44	72.01	96.76	121.51	1.00 \$	72.01 \$ 96.76 \$ 121.5	1 40.0	26.0	11.0 \$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,73 2.58	77.0 \$	87.44	Labourer	\$ 72.01	\$ 96.76	\$ 121.51
Carpenter	\$	100.05	81.62	111.18	140.74	1.00 \$	81.62 \$ 111.18 \$ 140.74	40.0	26.0	11.0 \$ 3,264.85	\$ 2,890.74	\$ 1,548.17	\$ 7,703.76	\$ -	7,7 03.76	77.0 \$	100.05	Carpenter	\$ 81.62	\$ 111.18	\$ 140.74
Telecom Foreman	\$	87.44	72.01	96.76	121.51	1.00 \$	72.01 \$ 96.76 \$ 121.5	1 40.0	26.0	11.0 \$ 2,880.23				\$ -	\$ 6,7 32.58	77.0 \$		Telecom Foreman	\$ 72.01	\$ 96.76	\$ 121.51
Telecom Cable Splicer	\$	87.44	72.01	96.76	121.51	1.00 \$	72.01 \$ 96.76 \$ 121.5	1 40.0	26.0	11.0 \$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,732 .58	77.0 \$	87.44	Telecom Cable Splicer	\$ 72.01	\$ 96.76	\$ 121.51

General Highway Equi	pmen	
Pickup	\$	24.36
Crew Cab Truck	\$	29.20
Conductor Splicing Truck	\$	46.02
OPGW Splicing Truck	\$	93.60
Picker - 17 Ton	\$	136.27
Picker - 38 Ton	\$	180.25
40T RT Crane	\$	195.70
60T RT Crane	\$	247.20
80T RT Crane	\$	345.05
Digger - TelElect 5052	\$	89.40
T/A Gravel Truck	\$	68.13
T/A Rock Truck	\$	121.67
Texoma	\$	162.23
Watson 1010	\$	190.55
Watson 1100	\$	247.20
Watson 2500	\$	309.00
Soilmec SR65	\$	437.75
Tractor Trailer/Picker	\$	134.67
Tractor Trailer (Heavy)	\$	134.67
Self-Loader	\$	134.67
55' Bucket Truck	\$	81.11
Pole Trailer	\$	22.04
Rock Drill	\$	103.00
Contract Construction Ed	quipm	ent
200T All-Tr. crane	\$	418.72
Contract Welder	\$	144.20
Quad or Side by Side	\$	24.21
120' Gene Lift	\$	87.55
53' Tridem trailer	\$	11.85
Heavy Construction Equ	ıipme	
Crawler Tractors 750 JD	\$	165.83
JD 310 Back Hoe	\$	68.13
JD 554 Loader	\$	69.27
JD 290 Track-hoe	\$	130.60
Skid-Steer Loader	\$	38.11
LGP Construction Equ		nt
Nodwells - Picker up to 17 Ton	\$	170.36
Nodwells - Picker over 17 Ton	\$	228.25
Nodwell - Digger	\$	130.60
Trencher	\$	84.36
10T Tele-Handler	\$	53.00
LGP Texoma Nodwell	\$	162.23
LGP Highboy ROW Trailer	\$	32.45
Stringing Equipme		
Reel Trailer	\$	72.10
Tensioner	\$	139.05
Puller	\$	139.05
1 Drum Puller	\$	77.25
Single Tensioner	\$	77.25
Single Traveller	\$	0.52
JD 350 LDC Excavator	\$	160.89
Compressor	\$	22.04
	\$	82.40
Grout Truck		13.46
Press & Pump, Genset, Light pla		40.99
Press & Pump, Genset, Light pla Press & Pump	\$	40.00
Press & Pump, Genset, Light pla Press & Pump Water Pump	\$	40.99
Press & Pump, Genset, Light pla Press & Pump Water Pump Pilot Line Winder	\$ \$	92.70
Press & Pump, Genset, Light pla Press & Pump Water Pump Pilot Line Winder Wire Winder	\$ \$ \$	92.70 17.69
Press & Pump, Genset, Light pla Press & Pump Water Pump Pilot Line Winder	\$ \$	92.70





	Description	QTY	Unit Price	Cos	st per item	Quantity Total	
V 404		<u>I - i </u>					
V::A01	S1-A1 Initial Mobilization S1-A1 Initial Mobilization		Unit Cost:	\$	•	1 \$	-
			\$ - \$ -	\$	-		
			\$ -	\$	-		
			\$ -	\$	-		
			\$ - \$ -	\$	-		
	Total material Cost per Structure			\$	-		
V::A02	S1-A2 Final Demobilization		Unit Cost:	\$	- /	1 \$	-
	S1-A2 Final Demobilization	ı	28	_			
			\$ - \$ -	\$			
			\$ -	\$	-		
			\$ - \$ -	\$			
			\$ -	\$	-		
	Total material Cost per Structure			\$	-		
V::A03	S1-A3 Accommodation Camp Installation S1-A3 Accommodation Camp Installation		Unit Cost:	\$	49,879,838.80	1 \$	49,879,838.80
	Screened Crushed Rock (Tonne)	33750		\$	1,599,075.00		
	Camp incidental Material Contractor Fuel(I)	105000	\$ 143,750.00 \$ 1.33	\$	718,750.00 140,070.00		
	Camp Hauling with pilot car	19000	\$ 218.50	\$	4,151,500.00		
	Room and Board (day)	173073	\$ 250.01 \$ -	\$	43,270,443.80		
			\$ -/	\$			
	Total material Cost per Structure			\$	49,879,838.80		
V::A04	S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day			\$	250.01	24000 \$	6,000,309.00
	S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day Room and Board (day)	1	71 \$ 250.01	\$	250.01		
			\$ -	\$	-		
			\$ -	\$			
			\$ -	\$	-		
	Total material Cost per Structure		\$ -	\$ \$	250.01		
				~			
V::A05							
	S1-A5 Meals for Company/Engineer visitors S1-A5 Meals for Company/Engineer visitors		Unit Cost: 82	\$	41.68	2000 \$	83,354.29
	S1-A5 Meals for Company/Engineer visitors S1-A5 Meals for Company/Engineer visitors Room and Board (day)	0.1667	82 \$ 250.01	\$	41.68	2000 \$	83,354.29
	S1-A5 Meals for Company/Engineer visitors	0.1667	\$ 250.01 \$ -	\$	41.68	2000 \$	83,354.29
	S1-A5 Meals for Company/Engineer visitors	0.1667	\$250.01 \$ - \$ - \$ -	\$ \$ \$	41.68	2000 \$	83,354.29
	S1-A5 Meals for Company/Engineer visitors	0.1667	\$250.01 \$ - \$ - \$ - \$ -	\$ \$ \$ \$	41.68 - - - -	2000 \$	83,354.29
	S1-A5 Meals for Company/Engineer visitors	0.1667	\$250.01 \$ - \$ - \$ -	\$ \$ \$	41.68 - - -	2000 \$	83,354.29
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4	0.1667	\$250.01 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$	41.68 - - - - -	1 \$	83,354.29
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure	0.1667	\$ 250.01 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$	41.68 - - - - - - 41.68		83,354.29
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68 - - - - 41.68		83,354.29
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68 - - - - - - 41.68		83,354.29
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68 - - - - - 41.68 - - -		-
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68 		-
V::A06	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68 		-
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 124 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68 	1 \$	•
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6	0.1667	\$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6	0.1667	\$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6	0.1667	\$ 250.01 \$ - \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A8 Performance Bonding Article 7.1	0.1667	82 \$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
V::A07	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6	0.1667	\$ 250.01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
V::A07	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A8 Performance Bonding Article 7.1	0.1667	\$ 250,01 \$ - \$ - \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
V::A07	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A8 Performance Bonding Article 7.1	0.1667	\$ 250.01 \$ - \$ - \$ \$ - \$ - \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
V::A07	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A8 Performance Bonding Article 7.1	0.1667	\$ 250,01 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•
V::A07	S1-A5 Meals for Company/Engineer visitors Room and Board (day) Total material Cost per Structure S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4 Total material Cost per Structure S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6 S1-A8 Performance Bonding Article 7.1	0.1667	\$ 250.01 \$ - \$ - \$ \$ - \$ - \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	41.68	1 \$	•



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::A09	S1-A9 Labour and Materials Bonding Article 7.2		Unit Cost:	\$ -	1 \$ -
	S1-A9 Labour and Materials Bonding Article 7.2		158	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure		\$ -	\$ - \$ -	-
V::B01	S1-B1 ROW Clearing S1-B1 ROW Clearing		Unit Cost: 174	\$ 19,550.00	2207 \$ 43,146,850.00
	ROW Clearing	1.00	\$ 19,550.00		
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		-	\$ 19,550.00	
V::B02	S1-B2 Removal of selected danger trees		Unit Cost:	\$ 210.00	1000 \$ 210,000.00
VB02	S1-B2 Removal of selected danger trees		188	Ψ 210.00	210,000.00
	Removal of selected danger trees	1.00	\$ 210.00 \$ -	\$ 210.00 \$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 210.00	
V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick		Unit Cost:	\$ 426.01	1358 \$ 578,516.15
	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	1.00	\$ 426.01		
	Supply and modulation of our of the control of the	1.00	\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 426.01	-
V::B04	S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m		Unit Cost: 216	\$ 32,700.00	141 \$ 4,610,700.00
	Supply and Installation of Bridge - 3 m	1.00	\$ 32,700.00	\$ 32,700.00	
			\$ -	\$ - \$ -	-
			\$ -	\$ -]
			\$ -	\$ - \$ -	-
	Total material Cost per Structure			\$ 32,700.00	
V::B05	S1-B5 Supply and Installation of Bridge - 4 m		Unit Cost:	\$ 43,600.00	2 \$ 87,200.00
	S1-B5 Supply and Installation of Bridge - 4 m		231	,	
	Supply and Installation of Bridge - 4 m	1.00	\$ 43,600.00	\$ 43,600.00 \$ -	-
			\$ -	\$ -	1
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure	L		\$ 43,600.00	
V::B06	S1-B6 Supply and Installation of Bridge - 5 m		Unit Cost:	\$ 54,500.00	15 \$ 817,500.00
	S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m	1.00	\$ 54,500.00		
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure		\$ -	\$ - \$ 54,500.00	-
V::B07	S1-B7 Supply and Installation of Bridge - 6 m		Unit Cost:	\$ 65,400.00	5 \$ 327,000.00
	S1-B7 Supply and Installation of Bridge - 6 m Supply and Installation of Bridge - 6 m	1.00	292 \$ 65,400.00		
	Supply and installation of bridge - 0 III	1.00	\$ -	\$ -	<u> </u>
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	<u> </u>
			\$ -	\$ -	
	Total material Cost per Structure			\$ 65,400.00	I I



	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::B08	S1-B8 Supply and Installation of Bridge - 7 m	•	Unit Cost:	\$ 76,300.00	1 \$	76,300.00
	S1-B8 Supply and Installation of Bridge - 7 m Supply and Installation of Bridge - 7 m	1.00				
			\$ -	\$ - \$ -	-	
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -	-	
	Total material Cost per Structure			\$ 76,300.00		
V::B09	S1-B9 Supply and Installation of Bridge - 8 m S1-B9 Supply and Installation of Bridge - 8 m		Unit Cost:	\$ 87,200.00	4 \$	348,800.00
	Supply and Installation of Bridge - 8 m	1.00	\$ 87,200.00			
			\$ -	\$ - \$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 87,200.00		
V::B10	S1-B10 Supply and Installation of Bridge - 10 m S1-B10 Supply and Installation of Bridge - 10 m		Unit Cost: 343	\$ 109,000.00	3 \$	327,000.00
	Supply and Installation of Bridge - 10 m	1.00	\$ 109,000.00 \$ -	\$ 109,000.00 \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ -		
	Total material Continue Structure		\$ -	\$ - \$ 109,000.00		
	Total material Cost per Structure					
V::B11	S1-B11 Supply and Installation of Bridge - 13 m S1-B11 Supply and Installation of Bridge - 13 m S1-B11 Supply and Installation of Bridge - 13 m	1.00	Unit Cost: 360 \$ 141,700.00	\$ 141,700.00	0 \$	-
	Supply and Installation of Bridge - 13 m	1.00	\$ -	\$ -		
			\$ -	\$ - \$		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 141,700.00	-	
V::B12	S1-B12 Supply and Installation of Bridge - 14 m		Unit Cost:	\$ 152,600.00	1 \$	152,600.00
VD12	S1-B12 Supply and Installation of Bridge - 14 m		377		Ι Ψ	132,000.00
	Supply and Installation of Bridge - 14 m	1.00	\$ 152,600.00 \$ -	\$ 152,600.00 \$ -	-	
			\$ -	\$ -		
			\$ - \$ -	\$ -	-	
	Total material Coat now Structure		\$ -	\$ -]	
	Total material Cost per Structure			\$ 152,600.00		
V::B13	S1-B13 Supply and Installation of Bridge - 15 m S1-B13 Supply and Installation of Bridge - 15 m		Unit Cost: 394	\$ 163,500.00	0 \$	•
	Supply and Installation of Bridge - 15 m	1.00	\$ 163,500.00			
			\$ -	\$ - \$ -	-	
			\$ -	\$ -		
			\$ -	\$ - \$ -		
	Total material Cost per Structure			\$ 163,500.00		
V::B14	S1-B14 Supply and Instal <mark>lation of Bridge - 16 m</mark> S1-B14 Supply and Installation of Bridge - 16 m		Unit Cost: 411	\$ 174,400.00	1 \$	174,400.00
	Supply and Installation of Bridge - 16 m	1.00	\$ 174,400.00 \$ -	\$ 174,400.00 \$ -	-	
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -		
	Total material Cost per Structure			\$ 174,400.00		
V::B15	S1-B15 Supply and Installation of Bridge - 25 m S1-B15 Supply and Installation of Bridge - 25 m		Unit Cost: 425	\$ 272,500.00	0 \$	-
	Supply and Installation of Bridge - 25 m	1.00	\$ 272,500.00 \$ -	\$ 272,500.00 \$ -		
			\$ -	\$ -]	
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -	1	
	Total material Cost per Structure			\$ 272,500.00	1	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::B16	S1-B16 Supply and Installation of Bridge - 35 m	•	Unit Cost:	\$ 381,500.00	0 \$ -
	S1-B16 Supply and Installation of Bridge - 35 m		439		
	Supply and Installation of Bridge - 35 m	1.00	\$ 381,500.00 \$ -	\$ 381,500.00 \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	
	T. J		\$ -	\$ -	
	Total material Cost per Structure			\$ 381,500.00	
V::B17	S1-B17 Supply and Installation of Bridge - 50 m		Unit Cost:	\$ 545,000.00	1 \$ 545,000.00
	S1-B17 Supply and Installation of Bridge - 50 m		453		
	Supply and Installation of Bridge - 50 m	1.00			
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure			\$ 545,000.00	
V::B18	S1-B18 Supply and Installation of Bridge - 60 m		Unit Cost:	\$ 654,000.00	1 \$ 654,000.00
VB10	S1-B18 Supply and Installation of Bridge - 60 m		467	Ψ 034,000.00	1 \$ 034,000.00
	Supply and Installation of Bridge - 60 m	1.00	\$ 654,000.00		
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -/	-	
	Total metarial Coat new Structure		\$ -	\$ - \$ 654,000.00	
	Total material Cost per Structure	_		\$ 654,000.00	
V::B19	S1-B19 Supply and Installation of Bridge - 65 m		Unit Cost:	\$ 708,500.00	1 \$ 708,500.00
	S1-B19 Supply and Installation of Bridge - 65 m		482		
	Supply and Installation of Bridge - 65 m	1.00			
			\$ -	\$ -	
			\$ -	\$ -	
	<u> </u>		\$ -	\$ -	
			\$ -		
			\$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 708,500.00	
V::B20	S1-B20 Installation of Corduroy Road		Unit Cost: 497	\$ 139.45	4915 \$ 685,391.84
	S1-B20 Installation of Corduroy Road Installation of Corduroy Road	1.00		\$ 139.45	
	, , , , , , , , , , , , , , , , , , , ,		\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	-
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		Ψ	\$ 139.45	
			•		
V::B21	S1-B21 Installation of Access Road - Access Class 3		Unit Cost:	\$ 80,700.00	415 \$ 33,490,500.00
	S1-B21 Installation of Access Road - Access Class 3 Installation of Access Road - Access Class 3	1.00	\$ 80,700.00		T
	Installation of Access fload - Access Class o	1.00	\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		\$ -	\$ - \$ 80,700.00	
	Total material est. por en estados	<u> </u>		00,100.00	
V::B22	S1-B22 Installation of Access Road - Access Trail		Unit Cost:	\$ 80,700.00	20 \$ 1,614,000.00
	S1-B22 Installation of Access Road - Access Trail Installation of Access Road - Access Trail	1.00	\$ 80,700.00		T
	INSTANCED FOR THOUSE THE	1.00	\$ 80,700.00	\$ 80,700.00	1
			\$ -	\$ -]
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -		
	Total material Cost per Structure			\$ 80,700.00	



Description	QTY	Unit Pr	ice (Cost per item	Quantity Total	
V::B23 S1-B23 Installation of Access Road - Bypass Trail S1-B23 Installation of Access Road - Bypass Trail		Unit Co	ost: 594	80,700.00	6 \$	484,200.00
Installation of Access Road - Bypass Trail			30,700.00			
		\$	- 5	- 5 -		
		\$	- 9			
		\$		- -		
Total material Cost per Structure			!	80,700.00		
V::B24 S1-B24 Installation of Access Road - Ice Bridge S1-B24 Installation of Access Road - Ice Bridge		Unit Co	607	,	35 \$	252,000.00
Installation of Access Road - Ice Bridge		1.00 \$	7,200.00	7,200.00		
		\$	- (-		
		\$	- 9			
Total material Coat non Structure		\$	- 9	-		
Total material Cost per Structure				,		
V::B25 S1-B25 ROW Clearing S1-B25 ROW Clearing		Unit Co	623	,	18 \$	351,900.00
ROW Clearing		1.00 \$ 1	9,550.00			
		\$		-		
		\$	- 5	- 5 -		
Total material Cost per Structure		\$	- 3	19,550.00		
V::B26 S1-B26 Removal of selected danger trees S1-B26 Removal of selected danger trees		Unit Co	637		42 \$	8,820.00
Removal of selected danger trees		1.00 \$	210.00	210.00		
		\$		-		
		\$	- 3	-		
Total material Cost per Structure		\$		210.00		
						4 000 07
V::B27 S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 I S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminiz		Unit Co		426.01	11 \$	4,686.07
	ed type 2		680	~		,
Supply and Installation of Culvert - 600 mm x 1.6 mm thick all		1.00 \$	426.01			,,,,,
Supply and Installation of Culvert - 600 mm x 1.6 mm thick all		\$	426.01 S	-		
Supply and Installation of Culvert - 600 mm x 1.6 mm thick also		\$ \$ \$	426.01 S	- 5 -		
		\$	426.01 S	- 6 - 6 -		
Supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also that the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply and Installation of Culvert - 600 mm x 1.6 mm thick also the supply an		\$ \$ \$ \$	426.01 S	- 6 - 6 -		
Total material Cost per Structure V::B28 S1-B28 Supply and Installation of Bridge - 3 m		\$ \$ \$ \$	426.01 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	5 - 5 - 5 - 5 - 5 426.01	1 \$	32,700.00
Total material Cost per Structure		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	426.01 S	5 - 5 - 5 - 5 426.01	1 \$	
Total material Cost per Structure V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	426.01	5 - 5 - 5 - 5 426.01 5 32,700.00	1 \$	
Total material Cost per Structure V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	426.01 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	1 \$	
Total material Cost per Structure V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m		Unit Cc	426.01	5 - 5 - 5 426.01 5 32,700.00 6 5 32,700.00	1 \$	
Total material Cost per Structure V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m		Unit Cc	426.01	5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	1 \$	
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m		Unit Cc	426.01	5 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	1 \$	
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure		Unit Cc 1.00 \$ 3 \$ 5 Unit Cc 1.00 \$ 4	426.01 -	5 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7		
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m		Unit Cc 1.00 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	426.01	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m		Unit Cc 1.00 \$ 3 S Unit Cc 1.00 \$ 4 \$ \$ \$	426.01	5 - 5 - 5 426.01 5 32,700.00 5 32,700.00 5 32,700.00 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6		
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m		Unit Co	426.01 426.01 5 5 5 5 5 5 5 5 5	5 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7		
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m		Unit Cc 1.00 \$ 3 \$ 5 Unit Cc 1.00 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	426.01 426.01 5 5 5 5 5 5 5 5 5	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure V::B30 S1-B30 Supply and Installation of Bridge - 5 m		Unit Cc 1.00 \$ 3 \$ 5 Unit Cc 1.00 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	426.01 - -	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure		Unit Cc 1.00 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	426.01 426.01 5 5 5 5 5 5 5 5 5	5 - 6 - 7 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 7	0 \$	32,700.00
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure V::B30 S1-B30 Supply and Installation of Bridge - 5 m S1-B30 Supply and Installation of Bridge - 5 m		Unit Co	426.01 - - -	5 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 7	0 \$	32,700.00
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure V::B30 S1-B30 Supply and Installation of Bridge - 5 m S1-B30 Supply and Installation of Bridge - 5 m		Unit Co	426.01 426.01 5 5 5 5 5 5 5 5 5	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	0 \$	32,700.00
V::B28 S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure V::B29 S1-B29 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure V::B30 S1-B30 Supply and Installation of Bridge - 5 m S1-B30 Supply and Installation of Bridge - 5 m		Unit Cc 1.00 \$ 4 \$ 5 \$ 1 Unit Cc 1.00 \$ 5 \$ 5 Unit Cc 1.00 \$ 5 \$ 5 \$ 5 Unit Cc	426.01	5 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 7	0 \$	32,700.00



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::B31	S1-B31 Supply and Installation of Bridge - 6 m		Unit Cost:	\$ 65,400.00	1 \$ 65,400.00
	S1-B31 Supply and Installation of Bridge - 6 m Supply and Installation of Bridge - 6 m	1.00	743 \$ 65,400.00	\$ 65,400.00	T
	Supply and installation of bridge - 0 m	1.00	\$ -	\$ 05,400.00	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			\$ 65,400.00	
V::B32	S1-B32 Supply and Installation of Bridge - 7 m		Unit Cost:	\$ 76,300.00	1 \$ 76,300.00
	S1-B32 Supply and Installation of Bridge - 7 m		774		10,000.00
	Supply and Installation of Bridge - 7 m	1.00	\$ 76,300.00 \$ -	\$ 76,300.00 \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		φ -	\$ 76,300.00	
V::B33	S1-B33 Supply and Installation of Bridge - 8 m S1-B33 Supply and Installation of Bridge - 8 m		Unit Cost: 792	\$ 87,200.00	1 \$ 87,200.00
	Supply and Installation of Bridge - 8 m	1.00		\$ 87,200.00	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 87,200.00	
V::B34	S1-B34 Supply and Installation of Bridge - 10 m		Unit Cost:	\$ 109,000.00	1 \$ 109,000.00
	S1-B34 Supply and Installation of Bridge - 10 m Supply and Installation of Bridge - 10 m	1.00	\$ 109,000.0 0	\$ 109,000.00	
	oupply and installation of bridge - 10 m	1.00	\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 109,000.00	
V::B35	S1-B35 Supply and Installation of Bridge - 13 m		Unit Cost:	\$ 141,700.00	0 \$ -
	S1-B35 Supply and Installation of Bridge - 13 m		822		
	Supply and Installation of Bridge - 13 m	1.00	\$ 141,700.00	\$ 141,700.00 \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	
			<u> </u>	\$ -	-
	Total material Cost per Structure		5	\$ 141,700.00	1
				•	
V::B36	S1-B36 Supply and Installation of Bridge - 14 m				
	S1-R36 Supply and Installation of Bridge - 14 m		Unit Cost:	\$ 152,600.00	0 \$ -
	S1-B36 Supply and Installation of Bridge - 14 m Supply and Installation of Bridge - 14 m	1.00	837	\$ 152,600.00 \$ 152,600.00	
		1.00	837 \$ 152,600.00 \$ -	\$ 152,600.00 \$ -	
		1.00	\$ 152,600.00	\$ 152,600.00	
		1.00	837 \$ 152,600.00 \$ -	\$ 152,600.00 \$ - \$	
	Supply and Installation of Bridge - 14 m	1.00	837 \$ 152,600.00 \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ -	
		1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ -	
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m	1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - Unit Cost:	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 5 \$ 152,600.00	
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 872	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00	0 \$ -
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m	1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 872	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 5 \$ 152,600.00	0 \$ -
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 163,500.00 \$ - \$ 163,500.00 \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ - \$ -	0 \$ -
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - Unit Cost: 872 \$ 163,500.00 \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ - \$ - \$ -	0 \$ -
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 163,500.00 \$ - \$ 163,500.00 \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ - \$ - \$ - \$ -	0 \$ -
V::B37	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ 163,500.00 \$ - \$ - \$ -	0 \$ -
V::B37 V::B38	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m Total material Cost per Structure S1-B38 Supply and Installation of Bridge - 16 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 872 \$ 163,500.00 \$ - \$ - \$ - \$ - \$ - Unit Cost:	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ 163,500.00 \$ - \$ - \$ - \$ - \$ 174,400.00	0 \$ -
	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m Total material Cost per Structure S1-B38 Supply and Installation of Bridge - 16 m S1-B38 Supply and Installation of Bridge - 16 m	1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ Unit Cost: 872 \$ 163,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 8 - \$ 888	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ - \$ - \$ - \$ - \$ 174,400.00	0 \$ -
	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m Total material Cost per Structure S1-B38 Supply and Installation of Bridge - 16 m		837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 163,500.00 \$ - \$ - \$ - \$ - \$ 163,400.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ - \$ - \$ - \$ - \$ 163,500.00 \$ - \$ - \$ - \$ - \$ 174,400.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m Total material Cost per Structure S1-B38 Supply and Installation of Bridge - 16 m S1-B38 Supply and Installation of Bridge - 16 m	1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ 163,500.00 \$ - \$ - \$ - \$ 163,500.00 \$ 174,400.00	0 \$ -
	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m Total material Cost per Structure S1-B38 Supply and Installation of Bridge - 16 m S1-B38 Supply and Installation of Bridge - 16 m	1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ 163,500.00 \$ - \$ - \$ - \$ 174,400.00 \$ 174,400.00 \$ - \$ - \$ -	0 \$ -
	Supply and Installation of Bridge - 14 m Total material Cost per Structure S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m Total material Cost per Structure S1-B38 Supply and Installation of Bridge - 16 m S1-B38 Supply and Installation of Bridge - 16 m	1.00	837 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 152,600.00 \$ - \$ - \$ - \$ - \$ 152,600.00 \$ 163,500.00 \$ 163,500.00 \$ - \$ - \$ - \$ 163,500.00 \$ 174,400.00	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::B39	S1-B39 Supply and Installation of Bridge - 25 m	•	Unit Cost:	\$ 272,500.00	0 \$ -
	S1-B39 Supply and Installation of Bridge - 25 m		904		
	Supply and Installation of Bridge - 25 m	1.00		\$ 272,500.00	-
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	1
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 272,500.00	
V::B40	S1-B40 Supply and Installation of Bridge - 35 m		Unit Cost:	\$ 381,500.00	0 \$ -
	S1-B40 Supply and Installation of Bridge - 35 m Supply and Installation of Bridge - 35 m	1.00	920 \$ 381,500.00	\$ 381,500.00	
	Supply and installation of Bridge - 33 m	1.00	\$ 361,300.00	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 381,500.00	
V::B41	S1-B41 Supply and Installation of Bridge - 50 m		Unit Cost:	\$ 545,000.00	0 \$ -
1541	S1-B41 Supply and Installation of Bridge - 50 m		936	Ψ 040,000.00	
	Supply and Installation of Bridge - 50 m	1.00		\$ 545,000.00	
	•		\$ -	\$ -	
			-	\$ -	
			\$ -	\$ -	4
			\$ -	\$ - \$ -	-
	Total material Cost per Structure		Ф -	\$ 545,000.00	
	Total material cost per ciructure	l		\$ 343,000.00	
V::B42	S1-B42 Supply and Installation of Bridge - 60 m		Unit Cost:	\$ 654,000.00	1 \$ 654,000.00
	S1-B42 Supply and Installation of Bridge - 60 m		952		
	Supply and Installation of Bridge - 60 m	1.00			
			\$ -	\$ -	
			\$ -	\$ -	4
			\$ -	\$ - \$	-
			\$ -	\$ -	-
	Total material Cost per Structure		Ψ	\$ 654,000.00	-
V::B43	S1-B43 Supply and Installation of Bridge - 65 m		Unit Cost:	\$ 708,500.00	0 \$ -
	S1-B43 Supply and Installation of Bridge - 65 m		968		1
	Supply and Installation of Bridge - 65 m	1.00			-
			\$ -	\$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	1
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 708,500.00	
V::B44	S1-B44 Installation of Corduroy Road		Unit Cost:	\$ 139.45	20 \$ 2,788.98
	S1-B44 Installation of Corduroy Road Installation of Corduroy Road	1.00	984 \$ 139.45	¢ 120.45	T
	Installation of Corduroy Road	1.00	\$ 139.45	\$ 139.45 \$ -	1
			\$ -	\$ -	1
			\$ -	\$ -	1
			\$ -	\$ -]
			\$ -	\$ -]
	Total material Cost per Structure			\$ 139.45	
V::B45	S1-B45 Installation of Access Road - Access Class 3		Unit Cost:	\$ 80,700.00	2 \$ 161,400.00
VD43	S1-B45 Installation of Access Road - Access Class 3		1020	φ ου,7υυ.υυ	2 \$ 161,400.00
	Installation of Access Road - Access Class 3	1.00		\$ 80,700.00	
			\$ -	\$ -	1
			\$ -	\$ -]
			\$ -	\$ -	_
			\$ -	\$ -	-
	Total material Cost per Structure		\$ -	\$ - \$ 80,700.00	-
	Total material Cost per Structure			\$ 60,700.00	
V::B46	S1-B46 Installation of Access Road - Access Trail		Unit Cost:	\$ 80,700.00	0 \$ -
	S1-B46 Installation of Access Road - Access Trail		1036		
	Installation of Access Road - Access Trail	1.00			
			\$ -	\$ -]
			\$ -	\$ -	<u> </u>
			\$ -	-	-{
			\$ - \$ -	\$ - \$ -	1
	Total material Cost per Structure		<u> </u>	\$ 80,700.00	1
		1	1	. 55,. 55.00	

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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::B47	S1-B47 Installation of Access Road - Bypass Trail		Unit Cost:	\$ 80,700.00	0 \$ -
	S1-B47 Installation of Access Road - Bypass Trail Installation of Access Road - Bypass Trail	1.00	\$ 80,700.00		
	71		\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ - \$ 80,700.00	-
		ı			
V::C01	S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and te S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and technical specification	chnical specifi	Unit Cost: 1071	\$ 468.58	32500 \$ 15,228,983.19
	Guy Anchor in soil (/m)		\$ 431.08	\$ 431.08	
	Anchor Grout (I) Room and Board (day)	0.15	\$ 1.73 \$ 250.01	\$ - \$ 37.50	-
	room and Board (day)	0.10	\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		-	\$ 468.58	
V::C02	S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and to	achnical snaci	Unit Cost	\$ 432.81	31500 \$ 13,633,365.65
VC02	S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and technical specification	Manhour Row:			31300 \$ 13,633,363.63
	Guy Anchor in Rock (/m) Anchor Grout (I)		\$ 395.30 \$ 1.73		
	Room and Board (day)	0.15	•	\$ 37.50	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 432.81	
V::C02-1	S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and	technical spec	Unit Cost:	\$ 994.35	2892 \$ 2,875,669.95
	S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and technical specification Pull Test				
	Room and Board (day)	0	\$ 250.01	\$ 994.35	
			\$ -	\$ -	
			\$ -	\$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			\$ 994.35	
V::C02-2	S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and		Unit Cost:	\$ 994.35	1572 \$ 1,563,123.50
	S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification Pull Test	Mannour Row:	\$ 994.35		
	Room and Board (day)	0		\$ -	
			\$ -	\$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure		-	\$ - \$ 994.35	-
V::C03	S1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per S1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42			\$ 278.62	36 \$ 10,030.42
	Screened Crushed Rock (Tonne)	5.88	\$ 47.38	\$ 278.62	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ - \$ -	-
	Total material Cost per Structure		· ·	\$ 278.62	
V::C04	S1-C4 Assembly and Installation of Foundation Types A2-1 (100 kPa) as per	Dwg 505573-4	Unit Cost:	\$ 468.98	17 \$ 7,972.60
	S1-C4 Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row:	1148	3	
	Screened Crushed Rock (Tonne)	9.90	\$ 47.38 \$ -	\$ 468.98 \$ -	1
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
	Total material Cost per Structure	l		\$ 468.98	
V::C05	S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42			\$ 377.13	1 \$ 377.13
	S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 5055/3-4622-42 Screened Crushed Rock (Tonne)	7.96			
			\$ -	\$ -	
			•		
			\$ - \$ -	\$ -	
			\$ - \$ - \$	\$ - \$ - \$ -	
	Total material Cost per Structure		\$ - \$ -	\$ - \$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::C06	S1-C6 Assembly and Installation of Foundation Types A4-1 (100 kPa) as per		Unit Cost:	\$ 468.98	0 \$ -
	S1-C6 Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-421 Screened Crushed Rock (Tonne)	:Manhour Row: 9.90	\$ 47.38	\$ 468.98	
	Colonia Classica Nasir (Tolling)	0.00	\$ -	\$ -	1
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ - \$ 468.98	-
	Total material Cost per Structure			400.30	
V::C07	S1-C7 Assembly and Installation of Foundation Types B1-1 (100 kPa) as per S1-C7 Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-421		Unit Cost: 1187	\$ 538.82	2 \$ 1,077.65
	Screened Crushed Rock (Tonne)	11.37			
			\$ - \$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 538.82	
		D 505570		A 440.70	40.0
V::C08	S1-C8 Assembly and Installation of Foundation Types B2-1 (100 kPa) as per S1-C8 Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-421		Unit Cost:	\$ 446.78	40 \$ 17,871.26
	Screened Crushed Rock (Tonne)	9.43	\$ 47.38		
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 446.78	-
V::C09	S1-C9 Assembly and Installation of Foundation Types A1-1A (250 kPa) as post- S1-C9 Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-4;		Unit Cost:	\$ 126.90	196 \$ 24,872.91
	Screened Crushed Rock (Tonne)	2.68	\$ 47.38		-
	, , , , , , , , , , , , , , , , , , , ,		\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		-	\$ - \$ 126.90	-
VC10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as a	per Dwg 50557	Unit Cost:	\$ 246.96	08 \$ 24 202 10
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as ps. S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-		Unit Cost:	\$ 246.96	98 \$ 24,202.19
V::C10			1226 \$ 47.38	\$ 246.96	
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row:	1226		
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row:	1226 \$ 47.38 \$ - \$ -	\$ 246.96 \$ - \$ -	
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row:	1226 \$ 47.38 \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ -	
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row:	1226 \$ 47.38 \$ - \$ -	\$ 246.96 \$ - \$ -	
	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure	Manhour Row: 5.21	1226 \$ 47.38 \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row: 5.21	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ 1239	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	
	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622- S2-C14 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622- S2-C15 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622- S2-C15 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row: 5.21	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ 47.38	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54	
	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row: 5.21 5.21 ber Dwg 50557 42DD-0084 for To	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ 1239	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	
	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row: 5.21 5.21 ber Dwg 50557 42DD-0084 for To	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ -	
	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row: 5.21 5.21 ber Dwg 50557 42DD-0084 for To	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row: 5.21 5.21 ber Dwg 50557 42DD-0084 for To	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ -	6 \$ 1,011.26
	S1-C11 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 5.21 5.21 5.21 5.21 5.21 5.21 5.21	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ 1,011.26
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 42DD-0084 for To	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ 246.96	6 \$ 1,011.26
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622- Screened Crushed Rock (Tonne)	Manhour Row: 5.21 ber Dwg 50557 42DD-0084 for To 3.56	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 1239 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ 47.38	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ 246.96	6 \$ 1,011.26
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 42DD-0084 for To	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96	6 \$ 1,011.26
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 42DD-0084 for To	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ 1,011.26
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 42DD-0084 for To	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 42DD-0084 for To	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96	0 \$ -
V::C11	Sti-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 5.21 5.21 5.21 5.21 5.21 5.21	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::C11 V::C12	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To: 3.56 Der Dwg 50557 42DD-0084 for To: 5.21 Der Dwg 50557 Manhour Row: Manhour Ro	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::C11 V::C12	Sti-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Der Dwg 50557 42DD-0084 for To 42DD-0084 for To 5.21 5.21 5.21 5.21 5.21 5.21	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::C11 V::C12	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To: 3.56 Der Dwg 50557 42DD-0084 for To: 5.21 Der Dwg 50557 Manhour Row: Manhour Ro	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::C11	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To: 3.56 Der Dwg 50557 42DD-0084 for To: 5.21 Der Dwg 50557 Manhour Row: Manhour Row: Manhour Row:	1226 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::C11 V::C12	St-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-Screened Crushed Rock (Tonne)	Manhour Row: 5.21 Der Dwg 50557 42DD-0084 for To: 3.56 Der Dwg 50557 42DD-0084 for To: 5.21 Der Dwg 50557 Manhour Row: Manhour Row: Manhour Row:	1226 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 246.96 \$ - \$ - \$ - \$ - \$ - \$ 246.96 \$ 168.54 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::C14	S1-C14 Assembly and Installation of Foundation Types B2-1A (250 kPa) as p		Unit Cost:	\$ 446.78	0 \$ -
	S1-C14 Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-4 Screened Crushed Rock (Tonne)	Manhour Row: 9.43	\$ 47.38		
	orecined Ordanied Nock (Torine)	3.40	\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			\$ 446.78	
V::C15	S1-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as pe S1-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as per Dwg 505573-4622-42		Unit Cost: 1291	\$ 471.41	28 \$ 13,199.40
	Screened Crushed Rock (Tonne)	9.95			
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 471.41	
V::C16	S1-C16 Assembly and Installation of Foundation Types C2-1 (100 kPa) as per S1-C16 Assembly and Installation of Foundation Types C2-1 (100 kPa) as per Dwg 505573-4622-42		Unit Cost: 1336	\$ 577.46	32 \$ 18,478.65
	Screened Crushed Rock (Tonne)	12.19		\$ 577.46	
	· ·		\$ -	\$ -	
			-	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 577.46	
V::C17	S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as pe S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573-4622-42		Unit Cost:	\$ 624.60	56 \$ 34,977.53
	Screened Crushed Rock (Tonne)	13.18	\$ 47.38	\$ 624.60	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Ocations Observations		\$ -	\$ -	
	Total material Cost per Structure			\$ 624.60	
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as pe			\$ 683.89	28 \$ 19,148.99
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row:	1362		28 \$ 19,148.99
V::C18			1362		28 \$ 19,148.99
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row:	\$ 47.38 \$ - \$ -	\$ 683.89 \$ -	28 \$ 19,148.99
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row:	1362 \$ 47.38 \$ - \$ -	\$ 683.89 \$ - \$ -	28 \$ 19,148.99
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row:	1362 \$ 47.38 \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ -	28 \$ 19,148.99
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row:	1362 \$ 47.38 \$ - \$ -	\$ 683.89 \$ - \$ -	28 \$ 19,148.99
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure	Manhour Row: 14.43	1362 \$ 47.38 \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 5	
V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per	Manhour Row: 14.43	1362 \$ 47.38 \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 7 \$ 5 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7	28 \$ 19,148.99
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure	Manhour Row: 14.43	1362 \$ 47.38 \$ - \$ - \$ - \$ - Unit Cost: 1375 \$ 47.38	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$	24 \$ 18,160.37
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row: 14.43 14.43 er Dwg 505573- Manhour Row:	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 5 \$ 683.89 \$ 756.68 \$ -	24 \$ 18,160.37
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row: 14.43 14.43 er Dwg 505573- Manhour Row:	1362 \$ 47.38 \$ - \$ - \$ - \$ - Unit Cost: 1375 \$ 47.38	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ - \$ -	24 \$ 18,160.37
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row: 14.43 14.43 er Dwg 505573- Manhour Row:	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 5 \$ 683.89 \$ 756.68 \$ - \$ - \$ -	24 \$ 18,160.37
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne)	Manhour Row: 14.43 14.43 er Dwg 505573- Manhour Row:	1362 \$ 47.38 \$ - \$ - \$ - \$ - Unit Cost: 1375 \$ 47.38 \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ - \$ - \$ - \$ -	24 \$ 18,160.37
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42	Manhour Row: 14.43 14.43 er Dwg 505573- Manhour Row:	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 5 \$ 683.89 \$ 756.68 \$ - \$ - \$ -	24 \$ 18,160.37
	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne)	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47.38 \$ - \$ - \$ - \$ - \$ 1375 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ 683.89	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 1375 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 5 - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 5 - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 1375 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	Manhour Row: 14.43 Pr Dwg 505573- Manhour Row: 15.97 Pr technical sp	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or	er Dwg 505573- Manhour Row: 15.97 Technical sp Manhour Row: D2-3, or E1-3 a	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$ 18,160.37
V::C19 V::C20	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure Total material Cost per Structure	er Dwg 505573- Manhour Row: 15.97 Technical sp Manhour Row: D2-3, or E1-3 a	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 5 - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ -
V::C19 V::C20	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or	er Dwg 505573- Manhour Row: 15.97 Technical sp Manhour Row: D2-3, or E1-3 a	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ \$ \$ \$ \$ 683.89 \$ 756.68 \$ 756.68 \$ \$ \$ \$ \$ \$ \$ \$ -	6 \$ -
V::C19 V::C20	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or	er Dwg 505573- Manhour Row: 15.97 Technical sp Manhour Row: D2-3, or E1-3 a	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ -
V::C19 V::C20	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or	er Dwg 505573- Manhour Row: 15.97 Technical sp Manhour Row: D2-3, or E1-3 a	1362 \$ 47,38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ \$ \$ \$ \$ 683.89 \$ 756.68 \$ 756.68 \$ \$ \$ \$ \$ \$ \$ \$ -	6 \$ -
V::C19 V::C20	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Screened Crushed Rock (Tonne) Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Total material Cost per Structure S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or	er Dwg 505573- Manhour Row: 15.97 Technical sp Manhour Row: D2-3, or E1-3 a	1362 \$ 47.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 683.89 \$ - \$ - \$ - \$ - \$ - \$ 683.89 \$ 756.68 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ -

Valard

	Description	QTY	Unit Price	Cos	st per item	Quantity	Total	
:22	S1-C22 Assembly and Installation of Foundation Type A1-2 as per Dwg 5055			\$	1,909.69	auantity	253 \$	483,151.
	S1-C22 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0074 f			1421	1,000100			100,1011
	Small Q Concrete (m^3)	1.66	\$ 1,150		1,909.69			
			\$	- \$	-			
			\$	- \$	-			
			7	- \$	-			
			Ψ	- \$	-			
	Total material Cost per Structure		\$	- \$ \$	1,909.69			
23	S1-C23 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C23 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0074 f			\$ 1438	2,798.41		125 \$	349,801
	Small Q Concrete (m^3)	2.43	\$ 1,150		2,798.41	_		
			•	- \$	-			
			\$	- \$	-			
			\$	- \$	-			
			\$	- \$	-			
			\$	- \$	-			
	Total material Cost per Structure			\$	2,798.41			
	C4 CO4 Assembly and hestallation of Foundation Time 40 0 or non-Dum FOFF	70 4000 4000	Unit On at	•	4 000 00		7.6	40.00
24	S1-C24 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055			\$	1,909.69		7 \$	13,367
	S1-C24 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0074 f			1455	4 000 00			
	Small Q Concrete (m^3)	1.66	\$ 1,150		1,909.69			
			\$	- \$				
			\$	- \$ - \$				
			-	- \$ - \$				
	Total material Cost per Structure		Ψ	\$	1,909.69			
	Total material cost per off detaile			1 Ψ	1,303.03	$\overline{}$		
5	S1-C25 Assembly and Installation of Foundation Type A4-2 as per Dwg 5055		Unit Cost:	\$	2,798.41		0 \$	
	S1-C25 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0074 f			1472				
	Small Q Concrete (m^3)	2.43		0.00 \$	2,798.41			
			\$	- \$	-			
			\$	- \$				
			\$	\$				
			\$	- \$	-			
26	Total material Cost per Structure S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055		\$ \$ Unit Cost:	- \$ - \$ \$	2,798.41 2,798.41		17 \$	47,572
26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row:	\$ \$ Unit Cost:	- \$ - \$ \$ \$	2,798.41 2,798.41		17 \$	47,572
26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055		\$ Unit Cost: \$ 1,150	- \$ - \$ \$ \$ 1489	2,798.41 2,798.41 2,798.41		17 \$	47,572
26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row:	\$ \$ Unit Cost:	- \$ - \$ \$ \$	2,798.41 2,798.41		17 \$	47,572
26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row:	\$ \$ Unit Cost: \$ 1,150	- \$ - \$ \$ \$ 1489 0.00 \$ - \$	2,798.41 2,798.41 2,798.41		17 \$	47,572
6	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150	- \$ - \$ \$ \$ 1489 0.00 \$ - \$ - \$	2,798.41 2,798.41 2,798.41		17 \$	47,572
6	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row:	\$ \$ Unit Cost: \$ 1,150	- \$ - \$ \$ \$ 1489 0.00 \$ - \$	2,798.41 2,798.41 2,798.41		17 \$	47,572
6	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row:	Unit Cost: \$ 1,150	- \$ - \$ \$ \$ 1489 0.00 \$ - \$ - \$ - \$	2,798.41 2,798.41 2,798.41 		17 \$	47,572
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure	Manhour Row: 2.43	Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ 1489 - \$ - \$ - \$ - \$ - \$	2,798.41 2,798.41 2,798.41 - - - - 2,798.41			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 5055	Manhour Row: 2.43	Unit Cost: \$ 1,150	- \$ - \$ \$ \$ 1489 0.00 \$ - \$ - \$ - \$ - \$ - \$	2,798.41 2,798.41 2,798.41 		17 \$ 43 \$	
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft	Manhour Row: 2.43 2.43 673-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ 1489 1.00 \$ - \$ - \$ - \$ - \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 5055	Manhour Row: 2.43	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ 1489 - \$ - \$ - \$ - \$ - \$ - \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft	Manhour Row: 2.43 2.43 673-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ 1489 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	2,798.41 2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft	Manhour Row: 2.43 2.43 673-4622-42DD Manhour Row:	\$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,798.41 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft	Manhour Row: 2.43 2.43 673-4622-42DD Manhour Row:	\$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ 1489 1,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,798.41 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft	Manhour Row: 2.43 2.43 673-4622-42DD Manhour Row:	Unit Cost: \$ 1,150 \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft	Manhour Row: 2.43 2.43 673-4622-42DD Manhour Row:	Unit Cost: \$ 1,150 \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ \$ \$ - \$ - \$ - \$	2,798.41 2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,793.12 - - - - - - - - - - - - -			
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43	Unit Cost: \$ 1,150 \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ 20,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 2,793.12		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3)	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43	Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ \$ - \$ - \$ - \$ - \$ - \$ - \$	2,798.41 2,798.41 2,798.41 - - - 2,798.41 2,793.12 2,793.12			120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Total material Cost per Structure	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ 20,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 2,793.12		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 if Small Q Concrete (m^3) Total material Cost per Structure Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 if S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 if	Manhour Row: 2.43 573-4622-42DD Manhour Row: 573-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 2,793.12 1,523.52		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 if Small Q Concrete (m^3) Total material Cost per Structure Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 if S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 if	Manhour Row: 2.43 573-4622-42DD Manhour Row: 573-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 if Small Q Concrete (m^3) Total material Cost per Structure Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 if S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 if	Manhour Row: 2.43 573-4622-42DD Manhour Row: 573-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 if Small Q Concrete (m^3) Total material Cost per Structure Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 if S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 if	Manhour Row: 2.43 573-4622-42DD Manhour Row: 573-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 ft S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 ft Snall Q Concrete (m^3)	Manhour Row: 2.43 573-4622-42DD Manhour Row: 573-4622-42DD Manhour Row:	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 1,523.52 1,523.52		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 if Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 if Small Q Concrete (m^3) Total material Cost per Structure Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 if S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 if	Manhour Row: 2.43 573-4622-42DD Manhour Row: 573-4622-42DD Manhour Row:	Unit Cost: \$ 1,150 \$ 1,150 \$ 1,150 \$ 1,150 \$ 1,150 \$ 1,150 \$ 1,150 \$ 1,150 \$ 1,150	- \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 1,523.52 1,523.52		43 \$	120,10
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 ft Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 ft S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 ft Snall Q Concrete (m^3)	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 673-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 1,523.52 1,523.52		43 \$	120,10 <i>-</i>
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 2,793.12 1,523.52 1,523.52 1,523.52 2,541.85		43 \$	120,10 ⁴
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 2,793.12 1,523.52 1,523.52 1,523.52 2,541.85		43 \$	120,10 ⁴
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 1,523.52 1,523.52 1,523.52 1,523.52 2,541.85		43 \$	120,10 <i>-</i>
7	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 1,523.52 1,523.52 1,523.52 2,541.85 2,541.85		43 \$	120,10 <i>-</i>
227	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 2,793.12 1,523.52 1,523.52 1,523.52 2,541.85		43 \$	120,10 ⁴
27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3) Total material Cost per Structure S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 1.32	\$ \$ \$ \$ Unit Cost: \$ 1,150 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,798.41 2,793.12 2,793.12 1,523.52 1,523.52 1,523.52 2,541.85 2,541.85		43 \$	47,572 120,104 33,517

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	•	QTY	Unit Price	Cost per item	Quantity Total
V::C30	S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055 S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 ft		1557	\$ 2,073.68	1 \$ 2,073.68
	Small Q Concrete (m ³)	1.80	\$ 1,150.00	\$ 2,073.68	
	oman & concrete (iii c)	1.00	\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	T. I		\$ -	\$ -	4
	Total material Cost per Structure			\$ 2,073.68	
V::C31	S1-C31 Assembly and Installation of Foundation Type A4-2 as per Dwg 5055	73-4622-42DD	Unit Cost:	\$ 2,541.85	0 \$ -
	S1-C31 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f		1574		
	Small Q Concrete (m^3)	2.21	\$ 1,150.00	\$ 2,541.85	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 2,541.85	-
	Total material oost per off detaile			ψ 2,541.05	
V::C32	S1-C32 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055	73-4622-42DD	Unit Cost:	\$ 2,708.48	3 \$ 8,125.44
	S1-C32 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 ft		1591	-,: -,:	
	Small Q Concrete (m ³)	2.36		\$ 2,708.48	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	-
	Total material Cost per Structure		\$ -	\$ - \$ 2,708.48	
	Total material cost per structure			2,700.40	
V::C33	S1-C33 Assembly and Installation of Foundation Type A1-2 as per Dwg 5055	73-4622-42DD	Unit Cost:	\$ 1,523.52	191 \$ 290,992.32
	S1-C33 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 ft		1608		
	Small Q Concrete (m^3)	1.32	\$ 1,150.0 0	\$ 1,523. 52	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	-
			\$ -	Ψ	
	Total material Cost per Structure		\$ -	\$ -	
	Total material Cost per Structure				
V::C34		73-4622-42DD	\$ -	\$ -	94 \$ 238,933.43
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row:	\$ - Unit Cost:	\$ 1,523.52 \$ 2,541.85	
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055		Unit Cost: 1625 \$ 1,150.00	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85	
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row:	\$ - Unit Cost: 1625 \$ 1,150.00 \$ -	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85	
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row:	Unit Cost: 1625 \$ 1,150.00 \$ - \$ -	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ -	
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row:	Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ -	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ -	
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row:	\$ - Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ -	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ -	
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row:	Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ -	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ -	94 \$ 238,933.43
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row:	\$ - Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ -	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43
V::C34 V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 if Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055	Manhour Row: 2.21	\$ - Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost:	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,541.85	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 2.21 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 if Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055	Manhour Row: 2.21	Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - Unit Cost: 1642 \$ 1,150.00	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 2.21 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1642 \$ 1,150.00	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 2.21 673-4622-42DD Manhour Row:	Unit Cost: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - Unit Cost: 1642 \$ 1,150.00	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 2.21 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1642 \$ 1,150.00	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 2.21 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ 1,150.00 \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 2.21 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ Unit Cost: 1642 \$ 1,150.00 \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08
V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21 773-4622-42DD Manhour Row: 1.80	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21 773-4622-42DD Manhour Row: 1.80	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: Unit Cost:	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ 2,073.68	94 \$ 238,933.43
V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 1.80 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ Unit Cost: \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ 2,073.68 \$ 2,073.68 \$ 2,073.68	94 \$ 238,933.43 6 \$ 12,442.08
V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21 773-4622-42DD Manhour Row: 1.80	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ Unit Cost: 1655 \$ 1,150.00	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08
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V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 1.80 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150,00 \$ \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150,00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08
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V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 1.80 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ Unit Cost: 1655 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08
V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 1.80 673-4622-42DD Manhour Row:	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43
V::C35 V::C36	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055 S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21 673-4622-42DD Manhour Row: 1.80 673-4622-42DD Manhour Row: 2.21	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ Unit Cost: 1655 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08
V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type B4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08
V::C35 V::C36	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08 0 \$ -
V::C35 V::C36	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type B4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD	\$ Unit Cost: 1625 \$ 1,150,00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150,00 \$ \$ \$ \$ Unit Cost: 1655 \$ 1,150,00 \$ \$ \$ \$ Unit Cost: 1655 \$ 1,150,00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08 0 \$ -
V::C35 V::C36	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ Unit Cost: 1655 \$ 1,150.00 \$ \$ \$ Unit Cost: 1655 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08 0 \$ -
V::C35 V::C36	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: 1658 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08 0 \$ -
V::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ Unit Cost: 1655 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08 0 \$ -
V::C35 V::C36	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055 S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 f	Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21 673-4622-42DD Manhour Row: 2.21	\$ Unit Cost: 1625 \$ 1,150.00 \$ \$ \$ \$ Unit Cost: 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,523.52 \$ 2,541.85 \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	94 \$ 238,933.43 6 \$ 12,442.08 0 \$ -

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	Description	QTY	Unit Price	C	ost per item	Quantity	Total	
C38	S1-C38 Assembly and Installation of Foundation Type B2-2 as per Dwg 505			\$	2,793.12		32 \$	89,379.8
	S1-C38 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 1 Small Q Concrete (m^3)	Manhour Row:		00 \$	2,793.12			
	(1.0)		\$ -	\$	-			
			\$ -	7				
			\$ -	Ψ				
			\$ -	\$				
	Total material Cost per Structure			\$	2,793.12			
C39	S1-C39 Assembly and Installation of Foundation Type C1-2 as per Dwg 5055 S1-C39 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026			\$	2,793.12		28 \$	78,207.
	Small Q Concrete (m^3)	2.43		00 \$	2,793.12	_		
			\$ -	Ψ				
			\$ -					
			\$	-				
			\$ -	\$				
	Total material Cost per Structure			\$	2,793.12			
40	S1-C40 Assembly and Installation of Foundation Type C2-2 as per Dwg 505	573-4622-42DD	Unit Cost:	\$	2,793.12		36 \$	100,552
70	S1-C40 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 ft			726	2,7 33.12		30 ¥	100,332
	Small Q Concrete (m^3)	2.43	\$ 1,150.	00 \$	2,793.12			
			\$ -	Ψ				
			\$ -					
			\$ -	\$				
			\$ -					
	Total material Cost per Structure		Ψ -	\$				
41	S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dwg 505	573_4622_42DD	Unit Cost	\$			60 \$	167,58
	S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573-4622-42DD-0026 Small Q Concrete (m^3)		11	743	2,793.12			,
	eman a consiste (m c)	2.10	\$ -					
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			Ф	\$				
			\$ -	\$				
42	Total material Cost per Structure S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055		\$ - \$ -	\$ \$ \$			36 \$	100,552
42	A		\$ - \$ Unit Cost:	\$ \$ \$	2,793.12 2,793.1 2		36 \$	100,552
42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026	Manhour Row:	Unit Cost:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12		36 \$	100,552
42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026	Manhour Row:	Unit Cost: 11 \$ 1,150.	\$ \$ \$ \$ 760 \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12		36 \$	100,552
42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026	Manhour Row:	Unit Cost: 11 \$ 1,150. \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12		36 \$	100,55
42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026	Manhour Row:	Unit Cost: 11 \$ 1,150.	\$ \$ \$ \$ 760 \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		36 \$	100,552
42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026	Manhour Row:	Unit Cost: 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ \$ \$ 760	2,793.12 2,793.12 2,793.12 		36 \$	100,552
	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 i Small Q Concrete (m^3)	f Manhour Row: 2.43	Unit Cost: 1 5 1,150 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ \$ \$ 760 00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		36 \$	
	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is	Manhour Row: 2.43 2.43 573-4622-42DD Manhour Row:	Unit Cost: \$ 1,150, \$ -\$ Unit Cost:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 			
	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 5055	Manhour Row: 2.43 2.43 573-4622-42DD	Unit Cost: 1,150. 1,150. 1,1150. 1,1150. 1,1150.	\$ \$ \$ \$ 760 00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 			
	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is	Manhour Row: 2.43 2.43 573-4622-42DD Manhour Row:	Unit Cost: \$ 1,150. \$ -\$ \$ -\$ \$ 1,150. \$ 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 			
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	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is	Manhour Row: 2.43 2.43 573-4622-42DD Manhour Row:	Unit Cost: \$ 1,150. \$ -\$ \$ -\$ \$ 1,150. \$ 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 			
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	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is	Manhour Row: 2.43 2.43 573-4622-42DD Manhour Row:	Unit Cost: 1.150. 5. 1,150. 5 6 6 6 6 6 6 6 6 6 6 6 6 6 7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 			
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3)	573-4622-42DD	Unit Cost: 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 			67,034
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 i Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 i Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 i S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 i	773-4622-42DD Manhour Row: 2.43	Unit Cost: 1.150. \$ 1,150. \$ -\$ Unit Cost: Unit Cost: 1.150. Unit Cost: 1.150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		24 \$	67,034
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3)	573-4622-42DD	Unit Cost: \$ 1,150. \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		24 \$	67,034
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43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installat	573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 673-4622-42DD Manhour Row:	Unit Cost: 1.150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150. \$ 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		24 \$	67,03 <i>4</i> 78,207
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3)	573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD	Unit Cost: 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150. 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		24 \$	67,03 <i>4</i> 78,207
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installat	573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 673-4622-42DD Manhour Row:	Unit Cost: 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12		24 \$	67,03 <i>c</i>
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installat	573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 673-4622-42DD Manhour Row:	Unit Cost: 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150. 1.150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12		24 \$	67,03 <i>4</i> 78,207
42 43 44	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installat	573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 673-4622-42DD Manhour Row:	Unit Cost: 1.150. \$ 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 		24 \$	100,552 67,034 78,207
43	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055 S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Sn-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-0026 is Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 is Sn-C45 Assembly and Installat	573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 2.43 573-4622-42DD Manhour Row: 673-4622-42DD Manhour Row:	Unit Cost: 1.150. \$ 1,150.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12 2,793.12		24 \$	67,03 <i>c</i>



Section Sect		Description	QTY	Unit Price	е	Cost per item	Quantity	Total	
Serial O Concrete (nr/s)	C46			Unit Cost		\$ 2,793.12		52 \$	145,242.
Section Sect				\$ 1,		\$ 2,793.12			
S					-				
Section Sect									
Total material Cost per Structure									
Stock Security and Installation of Foundation Type Div2 as per Dwg 908573-4622-4000 Unit Costs \$ 2,799.12									
ST-C24 Assembly and Installation of Foundation Type 11-2 as per Day 505573-4692-4070-0009 1,150,000 1, 150,000 1,		Total material Cost per Structure		·					
Small Q Concrete (m*0)	C47			Unit Cost		\$ 2,793.12		28 \$	78,207.
S				\$ 1,					
S					-				
S									
Total material Cost per Structure									
St.C4 Assembly and Installation of Foundation Type Et-2 as per Dwg 50857-4622-42DD Unit Cost:									
Since Section Sectio		Total material Cost per Structure							
Since Section Sectio	48	S1-C48 Assembly and Installation of Foundation Type F1-2 as per Dwg 505	573_4622_42DD	Unit Cost		\$ 2 703 12		16 \$	44 680
Section Sect	40			OTHE OOS		Ψ 2,733.12		10 ψ	74,000
Non-Shrink grout (i)				\$ 1,		\$ 2,793.12			
S					9.20				
S				\$	-				
Total material Cost per Structure					-				
ST-C49 Installation and Testing of 25M Mechanical Rock Anchor as per design drawings as Unit Cost: St-C49 Installation and Testing of 25M Mechanical Rock Anchor as per design drawings and technic Marthour Row. 1880		Total material Coot new Structure		\$	-				
StC50 Installation and Testing of 28M Mechanical Rock Anchor as per design drawings and technic Manhour Row. 1880		Total material Cost per Structure				\$ 2,793.12			
S	19			Unit Cost		\$ 23.48		10443 \$	245,23
S		Non-Shrink grout (I)	2.6						
S									
S					-				
St-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings a Unit Cost: \$ 30.52 618 \$ 18,86									
Total material Cost per Structure				-			-		
S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings a Unit Cost: S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technis Manhour Row: Non-Shrink grout ()				\$	-	\$ -			
S1-C50 Installation and Testing of 22M Mechanical Rock Anchor as per design drawings and technic Manhour Row:		Total material Cost per Structure		\$	-	\$ - \$ -			
Non-Shrink grout (I)				\$	Ţ	\$ - \$ -			
S	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des		\$:	\$ - \$ - \$ 23.48		618 \$	18,86
S S S C C	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and technic	icManhour Row:	\$ \$ Unit Cos	t: 1896	\$ - \$ - \$ 23.48 \$ 30.52		618 \$	18,86
S	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and technic	icManhour Row:	\$ \$ Unit Cost	t: 1896 9.20	\$ - \$ 23.48 \$ 30.52		618 \$	18,86
S	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and technic	icManhour Row:	\$ \$ Unit Cost	t: 1896 9.20	\$ - \$ 23.48 \$ 30.52 \$ 30.52		618 \$	18,86
Si-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings a Unit Cost: \$ 37.28 0 \$	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and technic	icManhour Row:	\$ Unit Cost	t: 1896 9.20	\$ - \$ 23.48 \$ 30.52 \$ - \$ -		618 \$	18,86
S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Mathour Row: S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Mathour Row: Non-Shrink grout (I)	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and technic	icManhour Row:	\$ Unit Cost \$ \$ \$ \$	t: 1896 9.20	\$ - \$ 23.48 \$ 30.52 \$ - \$ - \$ -		618 \$	18,86
S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Manhour Row: S1-C53 Installation and Test	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I)	icManhour Row:	Unit Cost	t: 1896 9.20	\$		618 \$	18,86
S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Manihour Row: S	50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I)	icManhour Row:	Unit Cost	t: 1896 9.20	\$		618 \$	18,86
S		S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure	Manhour Row:	Unit Cost	t: 1896 9.20 - - -	\$ - 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ \$ 30.52			18,86
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Total material Cost per Structure \$ 37.28		S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni	ign drawings a	Unit Cost	- 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ 5 \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$			18,86
S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Unit Cost: S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technik Manhour Row: 1928		S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni	ign drawings a	Unit Cost	- 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			18,86
S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technik Manhour Row: 1928 Non-Shrink grout (I)		S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I)	ign drawings a	Unit Cost	- 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ \$ - \$ \$ 30.52 \$ 37.28 \$ 37.28 \$ 37.28 \$			18,86
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S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings a Unit Cost: \$ 64.71 296 \$ 19,15	51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and tech	ign drawings a k Manhour Row: 4.1 ign drawings a k Manhour Row:	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost S S S S S S S S S S S S S	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ \$		0 \$	
S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technik Manhour Row: 1944 Non-Shrink grout (I)	51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I)	ign drawings a k Manhour Row: 4.1 ign drawings a k Manhour Row:	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost S S S S S S S S S S S S S	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ -		0 \$	
Non-Shrink grout (I) 7.0 \$ 9.20 \$ 64.71 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I)	ign drawings a k Manhour Row: 4.1 ign drawings a k Manhour Row:	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost S S S S S S S S S S S S S	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ -		0 \$	
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and techn Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per des S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and techn Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and techn Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and techn Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per des	ign drawings a k Manhour Row: 4.1 ign drawings a k Manhour Row: 5.0	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost S S S S S S S S S S S S S	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22944 \$	1,056,05
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	552	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor	ign drawings a k Manhour Row ign drawings a k Manhour Row 4.1 ign drawings a k Manhour Row 8.0 6.0	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22944 \$	1,056,05
\$ - \$ - \$ - \$ - \$ - \$ -	552	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor	ign drawings a k Manhour Row ign drawings a k Manhour Row 4.1 ign drawings a k Manhour Row 8.0 6.0	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22944 \$	1,056,05
\$ - \$ -	552	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor	ign drawings a k Manhour Row ign drawings a k Manhour Row 4.1 ign drawings a k Manhour Row 8.0 6.0	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost S S S S S S S S S S S S S	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 5		22944 \$	1,056,05
	551	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor	ign drawings a k Manhour Row ign drawings a k Manhour Row 4.1 ign drawings a k Manhour Row 8.0 6.0	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost	t: 1896 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ \$		22944 \$	1,056,05
Total material Cost per Structure \$ 64.71	50 51 52	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per des S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor	ign drawings a k Manhour Row ign drawings a k Manhour Row 4.1 ign drawings a k Manhour Row 8.0 6.0	Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost	t: 1912 9.20 	\$ - \$ 23.48 \$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22944 \$	1,056,050



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::C54	S1-C54 Installation and Testing of 64M Mechanical Rock Anchor as per des			\$ 76.09	40 \$ 3,043.46
	S1-C54 Installation and Testing of 64M Mechanical Rock Anchor as per design drawings and techni Non-Shrink grout (I)	icManhour Row 8.3			
	Nor-Smilk grout (i)	0.3	\$ -	\$ 70.09	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 76.09	_
	Total material obst per outdotale		1		
V::C55	S1-C55 Design, Assembly and Installation of Foundation Type A1-3 as per I			\$ 44,266.30	7 \$ 309,864.12
	S1-C55 Design, Assembly and Installation of Foundation Type A1-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C55		\$ 40,516.1	\$ 40,516.11	
	Room and Board (day)		\$ 250.0		
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		\$ -	\$ - \$ 44,266.30	-
			•	,	
V::C56	S1-C56 Design, Assembly and Installation of Foundation Type A2-3 as per I			\$ 44,266.30	3 \$ 132,798.91
	S1-C56 Design, Assembly and Installation of Foundation Type A2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C56		\$ 40,516.1°	\$ 40,516.11	
	Room and Board (day)		\$ 250.0		
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	-
	Total material Cost per Structure		\$ -	\$ - \$ 44,266.30	-
	Total material cost per off acture	L		ΤΨ 44,200.30	
V::C57	S1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per I			\$ 44,266.30	0 \$ -
	S1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per Dwg 505573-4622-42DI			10.540.44	
	NorthStar Price for Steel Piling Caps C57 Room and Board (day)		\$ 40,516.11 \$ 250.01		
	Noon and Board (day)	13	\$ 250.0	\$ 3,750.19	
			\$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 44,266.30	L,
V::C58	S1-C58 Design, Assembly and Installation of Foundation Type A4-3 as per I	Owa 505573-46	Unit Cost:	\$ 44,266.30	0 \$ -
	S1-C58 Design, Assembly and Installation of Foundation Type A4-3 as per Dwg 505573-4622-42DI			1.1,200.00	
	NorthStar Price for Steel Piling Caps C58	1			
	Room and Board (day)	15			
			\$ -	\$ -	<u></u>
			\$ - \$ -	\$ -	_
			\$ -	\$ -	7
	Total material Cost per Structure			\$ 44,266.30	
V 050	C4 OFO Design Assembly and Installation of Foundation Type D4 Conservation	F05570 40	Linit Occide	A 44 000 00	
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per I S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42DI			\$ 44,266.30	0 \$ -
	NorthStar Price for Steel Pilling Caps C59		\$ 40,516.1	\$ 40,516.11	
	Room and Board (day)		\$ 250.0		
			\$ -	\$ -	
			\$ -	\$ -	4
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		Φ -	\$ 44,266.30	_
			1	1 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per I	•		\$ 208,457.28	0 \$ -
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI	Manhour Row			
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60	Manhour Row	\$ 188,456.2	\$ 188,456.25	
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI	Manhour Row	\$ 188,456.2	\$ 188,456.25	
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60	Manhour Row	\$ 188,456.2 \$ 250.0	\$ 188,456.25 \$ 20,001.03	
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60	Manhour Row	\$ 188,456.2 \$ 250.0 \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ -	
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60	Manhour Row	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ -	
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60	Manhour Row	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ -	
/::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60	Manhour Row	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ -	
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure	Manhour Row 1 80	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 208,457.28	
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per I	Manhour Row 1 80 80 80 80 80 80 80 80 80 80 80 80 80	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ -	
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per I S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per I S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per I	Manhour Row 1 80 80 Dwg 505573-46	\$ 188,456.2 50.0 \$ 250.0 \$ - \$ - \$ - \$ - \$ 5 - \$	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per I	Manhour Row 1 80 80 Dwg 505573-46 Manhour Row 1	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25	0 \$ -
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C61	Manhour Row 1 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ -	0 \$ -
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C61	Manhour Row 1 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ -	0 \$ -
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C61	Manhour Row 1 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ -	0 \$ -
	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C61	Manhour Row 1 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	\$ 188,456.2 \$ 250.0 \$ - \$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	\$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ -	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::C62	S1-C62 Design, Assembly and Installation of Foundation Type C2-3 as per D			\$ 208,457.28	0 \$ -
	S1-C62 Design, Assembly and Installation of Foundation Type C2-3 as per Dwg 505573-4622-42DD		400 450 05	400 450 05	
	NorthStar Price for Steel Piling Caps C62 Room and Board (day)	1 80		\$ 188,456.25 \$ 20,001.03	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
	Total material Cost per Structure			\$ 208,457.28	
V::C63	S1-C63 Design, Assembly and Installation of Foundation Type D1-3 per Dwg	- ENEET2 4622	Unit Costs	\$ 208,457.28	0 \$ -
VC03	S1-C63 Design, Assembly and Installation of Foundation Type D1-3 per Dwg S05573-4622-42DD-0			\$ 200,437.20	0 \$ -
	NorthStar Price for Steel Piling Caps C63	1	\$ 188,456.25	\$ 188,456.25	
	Room and Board (day)	80	\$ 250.01 \$ -	\$ 20,001.03 \$ -	
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure		\$ -	\$ - \$ 208,457.28	
	Total material cost per offucture			Ψ 200,437.20	
V::C64	S1-C64 Design, Assembly and Installation of Foundation Type D2-3 as per D			\$ 208,457.28	4 \$ 833,829.12
	S1-C64 Design, Assembly and Installation of Foundation Type D2-3 as per Dwg 505573-4622-42DD NorthStar Price for Steel Piling Caps C64	Manhour Row		\$ 188,456. 25	
	Room and Board (day)	80		\$ 20,001.03	
			-	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 208,457.28	
V::C65	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per D)wa 505573-46	Unit Cost	\$ 208,457.28	0 \$ -
VC03	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per L			\$ 200,437.20	· ·
	NorthStar Price for Steel Piling Caps C65	1			
	Room and Board (day)	80	\$ 250.01 \$ -	\$ 20,001. 03	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 208,457.28	-
	Total material cost per Structure			\$ 200,437.20	
V::C66	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as pe			\$ 468.58	240 \$ 112,460.18
	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings a Guy Anchor in soil (/m)	Manhour Row	\$ 431.08	\$ 431.08	
	Room and Board (day)	0.15		\$ 37.50	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			\$ 468.58	
V::C67	S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT		Unit Cost:	\$ 580.69	1680 \$ 975,558.09
	S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT	Manhour Row		• • • • • • • • • • • • • • • • • • • •	
	NorthStar Price for piles by LM	1	\$ 555.69		
	Room and Board (day)	0.1	\$ 250.01 \$ -	\$ 25.00 \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 580.69	-
	. State Market por		I .		
V::C68	S1-C68 Supply and Installation of Cribs for excavation protection of tower t			\$ 254.37	10000 \$ 2,543,685.00
	S1-C68 Supply and Installation of Cribs for excavation protection of tower types A1, A2, A3, A4, B1, Bolt a Plate Culvert (m^2)	iviannour Row	\$ 254.37	\$ 254.37	<u> </u>
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 254.37	
V::C69	S1-C69 Transportation of native backfill		Unit Cost:	\$ -	2000 \$ -
	S1-C69 Transportation of native backfill	Manhour Row		\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -]
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	1
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ -	
	Total material Cost per Structure	<u> </u>	ļ	\$ -	

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	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/			\$ 106.61	20000 \$	2,132,100.00
	S1-C70 Supply and transportation of approved fill from an alternate source/processed material/road					
	Screened Crushed Rock (Tonne)	2.25	\$ 47.38 \$ -	\$ 106.61 \$ -	1	
			\$ -	\$ -		ļ
			\$ -	\$ -		ļ
			\$ -	\$ -		ļ
	Total material Cost per Structure		\$ -	\$ - \$ 106.61		ļ
	Total material cost per Structure			100.01		
V::C71	S1-C71 Rock blasting/preparation		Unit Cost:	\$ -	1100 \$	-
	S1-C71 Rock blasting/preparation		\$ -	-		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ - \$ -		
	Total material Cost per Structure			\$ -		
				•		
V::D01	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0" as per div		Unit Cost:	\$ -	40 \$	-
	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0" as per dwg. 505573-4622-43DD	-0042	\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ -		
					-	
V::D02	S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per dwg. 505573-4622-43E		Unit Cost:	\$ -	29 \$	•
	31-02 Assembly and Election of Suspension Tower Type ATT 1.5 as per uwg. 503573-4022-45E	D-0042	\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			-		
V::D03	S4 D2 Assembly and Exection of Symposium Toylor Type A4 + 21 as now d	F0FF72 46	Unit Cont.	\$ -	46 \$	
VD03	S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3" as per d S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3" as per dwg. 505573-4622-43DD		Offit Cost.	4	40 \$	•
)		\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ -	1	
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ -		
V::D04	S1-D4 Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per	dwg. 505573-4	Unit Cost:	\$ -	31 \$	_
	S1-D4 Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per dwg. 505573-4622-43E			*	5.1	
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure		<u> </u>	\$ -	<u> </u>	
V::D05	S1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per d	wg. 505573-46	Unit Cost:	\$ -	138 \$	-
	S1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD					
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost nor Savesture		\$ -	\$ -		
	Total material Cost per Structure	l .	<u> </u>	\$ -		
V::D06	S1-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per	dwg. 505573-4	Unit Cost:	\$ -	79 \$	-
	S1-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per dwg. 505573-4622-43E					
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -	1	
				•		
	Total material Cost per Structure		\$ -	\$ - \$ -		I



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D07	S1-D7 Assembly and Erection of Suspension Tower Type "A1 + 9" as per d			\$ -	116 \$ -
	S1-D7 Assembly and Erection of Suspension Tower Type "A1 + 9" as per dwg. 505573-4622-43DD			•	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D08	S1-D8 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as pe		Unit Cost:	\$ -	77 \$ -
	S1-D8 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as per dwg. 505573-4622-43	DD-0042	\$ -	\$ -	
			\$ -	\$ -	
			\$ -	-	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D09	S1-D9 Assembly and Erection of Suspension Tower Type "A1 + 12" as per	dwg. 505573-4	Unit Cost:	\$ -	147 \$ -
	S1-D9 Assembly and Erection of Suspension Tower Type "A1 + 12" as per dwg. 505573-4622-43D				
			\$ - \$ -	\$	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Coet new Structure		\$ -	-	
	Total material Cost per Structure			\$ -	
V::D10	S1-D10 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as p	er dwg. 50557	Unit Cost:	\$ -	0 \$ -
	S1-D10 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as per dwg. 505573-4622-4	3DD-0042			
			\$ -	\$ - \$ -	
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	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material obst per on actual				
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per		Unit Cost:	\$ -	0 \$ -
V::D11	A			\$ -	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per		\$ -	\$ -/	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per			\$ -	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per		\$ -	\$ - \$ - \$ - \$ -	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431		\$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per s1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per	DD-0042 Deer dwg. 505573 DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure Total material Cost per Structure	DD-0042 Deer dwg. 505573 DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per	DD-0042 Deer dwg. 505573 DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per	DD-0042 Deer dwg. 505573 DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per	DD-0042 Deer dwg. 505573 DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per	DD-0042 Deer dwg. 505573 DD-0042	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per	DD-0042 Deer dwg. 505573 DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure	DD-0042 Der dwg. 505573- DD-0042	Unit Cost: Unit Cost: Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-431	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	Unit Cost: Unit Cost: Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	Unit Cost: Unit Cost: Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-431	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-431	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-431	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-431	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-431	DD-0042 Der dwg. 505573- DD-0042 dwg. 505573- Dd-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D15	S1-D15 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as S1-D15 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as per dwg. 505573-462			\$ -	0 \$ -
	S1-D15 Assembly and Erection of Suspension Tower Type: A2 + 1.5 as per dwg. 505575-462	2-43 Mailioui Ro	\$ -	\$ -	T
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	Total material Cost per Structure			\$ -	
V::D16	S1-D16 Assembly and Erection of Suspension Tower Type "A2 + 3" as	per dwg. 505573	3-4 Unit Cost:	\$ -	1 \$ -
	S1-D16 Assembly and Erection of Suspension Tower Type "A2 + 3" as per dwg. 505573-4622		ow:		
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	Total material Cost per Structure		Φ -	\$ -	-
V::D17	S1-D17 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as S1-D17 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as per dwg. 505573-462			-	30 \$ -
	31-bit Assembly and Election of Suspension Tower Type A2 14.3 as per dwg. 303070-402	2-43 Maririodi 13	\$ -	\$ -	
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	Total material Cost per Structure			\$ -	
V::D18	S1-D18 Assembly and Erection of Suspension Tower Type "A2 + 6" as	per dwg. 505573	3-4 Unit Cost:	\$ -	61 \$ -
	S1-D18 Assembly and Erection of Suspension Tower Type "A2 + 6" as per dwg. 505573-4622	43DI Manhour Ro			
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V D40	2124		70 11 11 0		70.0
V::D19	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" at S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-462			\$ -	76 \$ -
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	Total material Operators Committee		-	\$ -	
	Total material Cost per Structure			\$ -	
V::D20	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as			\$ -	77 \$ -
	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622	-43DI Manhour Ro		<u></u>	
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	Total material Cost per Structure			\$ -	
VD24	S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" :	se nor dwa Ene	57' Unit Coot	\$ -	56 \$ -
V::D21	S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-46			-	- 30 \$ -
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V::D22	S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 12" as			\$ -	34 \$ -
	S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 12" as per dwg. 505573-462	2-43[Manhour Ro			
	-		\$ - \$ -	\$ - \$ -	
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	Total material Cost per Structure		-	\$ - \$ -	_



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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D23	S1-D23 Assembly and Erection of Suspension Tower Type "A2 + 13.5" as p			\$ -	9 \$ -
	S1-D23 Assembly and Erection of Suspension Tower Type "A2 + 13.5" as per dwg. 505573-4622-4	Warmour Kow	\$ -	\$ -	<u> </u>
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	Total material Cost per Structure			\$ -	
V::D24	S1-D24 Assembly and Erection of Suspension Tower Type "A2 + 15" as per	r dwa 505573.	Unit Cost	\$ -	3 \$ -
VD24	S1-D24 Assembly and Erection of Suspension Tower Type "A2 + 15" as per dwg. 505573-4622-43[· -	3 \$
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	Total material Cost per Structure		\$ -	\$ - \$ -	-
	Total material cost per structure			Ψ -	
V::D25	S1-D25 Assembly and Erection of Suspension Tower Type "A2 + 16.5" as p	er dwg. 50557	Unit Cost:	\$ -	0 \$ -
	S1-D25 Assembly and Erection of Suspension Tower Type "A2 + 16.5" as per dwg. 505573-4622-4				
			-	\$ -	
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	Total material Cost per Structure		Ψ -	\$ -	
V::D26	S1-D26 Assembly and Erection of Suspension Tower Type "A2 + 18" as per	r dwg. 5055 73-	Unit Cost:	\$ -	0 \$ -
	S1-D26 Assembly and Erection of Suspension Tower Type "A2 + 18" as per dwg. 505573-4622-430	Manhour Row:			
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			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D27	S1-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as pe	or dwg 505573	Unit Cost	\$ -	0 \$ -
VDZ1	S1-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-43			Ψ -	U U
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			\$ - \$ - \$ -	\$ - \$ - \$ -	
	Total material Cost per Structure		\$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	
			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28			\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DD		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	4 \$ -
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c		Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ \$ -	4 \$ -
V::D28 V::D29	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	4 \$ -
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DE	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DI	Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D30	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per			\$ -	0 \$ -
	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-438	Manhour Row			
			\$ -	\$ -	
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	Total material Cost per Structure		Φ -	\$ -	-
	Total material cost per structure	1	l	Ψ -	
V::D31	S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as p	er dwa. 505573	Unit Cost:	\$ -	2 \$ -
	S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per dwg. 505573-4622-4			\	
	/ / / / / / / / / / / / / / / / / / / /		\$ -	\$ -	
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	Total material Cost per Structure			-	
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per			\$ -	0 \$ -
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-431	DIManhour Row			
			\$ -	\$ -	
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	Total material Cost per Structure		Ψ	\$ -	_
V::D33	S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as p	er dwg. 505573	Unit Cost:	\$ -	4 \$ -
	S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-4	3 Manhour Row			
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	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	
			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D34			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D34	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431	Di Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D34 V::D35	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - \$ - \$ 5 - \$	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as per dwg. 505573-4622-431	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-431 Total material Cost per Structure S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D36	S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 12" as per	r dwg. 505573	Unit Cost:	\$ -	2 \$ -
	S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 12" as per dwg. 505573-4622-43	Manhour Row	\$ -	\$ -	<u> </u>
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			\$ -	\$ -	
	Total material Cost per Structure	l		-	
V::D37	S1-D37 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as p			-	0 \$ -
	S1-D37 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as per dwg. 505573-4622-4	Mannour Row	\$ -	\$ -	
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			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
	Total meterial Coat not Structure		\$ -	\$ -	
	Total material Cost per Structure			-	
V::D38	S1-D38 Assembly and Erection of Suspension Tower Type "A3 + 15" as per			\$ -	4 \$ -
	S1-D38 Assembly and Erection of Suspension Tower Type "A3 + 15" as per dwg. 505573-4622-43	Manhour Row	\$ -	-	
			\$ -	\$ -	
			\$ -	-	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure				
V::D39					
VD00	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p			\$ -	3 \$ -
VD00	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4				3 \$ -
VD00				\$ - \$ -	3 \$ -
V200			\$ - \$ - \$ -	\$ - \$ - \$	3 \$ -
1500			\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	3 \$ -
1200			: \$ - \$ - \$ -	\$ - \$ - \$	3 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	E Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43DI S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43DI Total material Cost per Structure	dwg. 505573-4 Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Unit Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Unit Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	0 \$ -
V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43Di Total material Cost per Structure S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per	dwg. 505573-4 Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D42	S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per			\$ -	0 \$ -
	S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43D	Manhour Row		-	T
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D43	S1-D43 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as pe			-	0 \$ -
	S1-D43 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as per dwg. 505573-4622-43	Manhour Row	: -	-	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D44	S1-D44 Assembly and Erection of Suspension Tower Type "A4 + 6" as per	dwg. 505573-4	Unit Cost:	\$ -	0 \$ -
	S1-D44 Assembly and Erection of Suspension Tower Type "A4 + 6" as per dwg. 505573-4622-43D		:		
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	1
	Total material Cost per Structure			\$ -	
V··D45	S1-D45 Assembly and Frection of Suspension Tower Type "A4 + 7.5" as no	er dwg 505573	. Unit Cost	s -	0 \$ -
V::D45	\$1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as ps \$1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. \$05573-4622-43			\$ -	0 \$ -
V::D45			: -	\$ -	0 \$ -
V::D45					0 \$ -
V::D45			\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	0 \$ -
V::D45			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ -
V::D45			\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	0 \$ -
V::D45			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D45			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D45			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D45 V::D46	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43	Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
V::D46	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure	dwg. 505573-4	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
V::D46	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	S	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43D	dwg. 505573-4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -



V::D48	Description	OTV	Unit Bring	0	Otite.
	Description S1-D48 Assembly and Erection of Suspension Tower Type "A4 + 12" as pe	QTY	Unit Price	Cost per item	Quantity Total 0 \$ -
VD40	S1-D48 Assembly and Erection of Suspension Tower Type "A4 + 12" as per dwg. 505573-4622-43			· -	- U
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material cost per structure	I .	L	-	
V::D49	S1-D49 Assembly and Erection of Suspension Tower Type "A4 + 13.5" as	per dwg. 50557	Unit Cost:	-	0 \$ -
	S1-D49 Assembly and Erection of Suspension Tower Type "A4 + 13.5" as per dwg. 505573-4622-	Manhour Row			
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D50	S1-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as pe			\$ -	0 \$ -
	S1-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per dwg. 505573-4622-43	st Mannour Row		-	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V. DE4	C4 D54 Assembly and Fraction of Supremaion Towar Type #44 , 46 Ell as	due 50557	" Unit Coots	\$ -	0 6
V::D51	S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-			\$ -	0 \$ -
	7,5		\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost nor Structure		\$ -	\$ - \$ -	
	Total material Cost per Structure			-	
V::D52	S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as pe	er dwg. 505573	Unit Cost		0 ¢
	S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573-4622-43		· Utili CUSI.	\$ -	0 \$ -
	S1-D52 Assembly and Erection of Suspension Tower Type A4 + 18 as per dwg. 505575-4622-43				0 \$ -
	51-DDZ Assembly and Erection of Suspension Tower Type: A4 + 16 as per dwg. 505573-4522-45		: \$ -	\$ -	0 \$ -
	51-U52 Assembly and Erection of Suspension Tower Type A4 + 16 as per dwg. 505573-4622-45		\$ - \$ -	\$ - \$ -	0 \$ -
	S1-U52 Assembly and Erection of Suspension Tower Type A4 + 16 as per dwg. 505573-4622-45		\$ - \$ - \$ -	\$ - \$ - \$ -	0 \$ -
	ST-USZ Assembly and Erection of Suspension Tower Type 744 + 16 as per dwg. 505573-4622-43		\$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ -
	S1-U52 Assembly and Erection of Suspension Tower Type 744 + 16 as per dwg. 505573-4622-43		\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ -
	S1-USZ Assembly and Erection of Suspension Tower Type 744 + 16 as per dwg. 505573-4622-43		\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-USZ Assembly and Erection of Suspension Tower Type 744 + 16 as per dwg. 505573-4622-43		\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-USZ Assembly and Erection of Suspension Tower Type 744 + 16 as per dwg. 505573-4622-43		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
			\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	Total material Cost per Structure		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D53	Total material Cost per Structure	Der dwg. 50557	\$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
V::D53	Total material Cost per Structure S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as a	Der dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



3-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104 Assembly and Execution of Suppension Tower Type '18+ or as per days \$5557-44 Unit Costs 5-104		Description	QTY	Unit Price	Cost per item	Quantity Total
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V::D55 3		S1-D54 Assembly and Erection of Suspension Tower Type "B1 + 0" as per dwg. 505573-4622-43DI	Manhour Row		\$ -	1
				\$ -	\$ -	
1						
Total material Coat per Structure						
V-:055 31-055 Assembly and Erection of Suspension Tower Type "B1 + 1.5" as per dwg. 905573. Unit Cost:		Total material Coet non Churchura		\$ -		
V:.D87 V:.D87 V:.D87 V:.D87 V:.D87 V:.D88 V:.D88 V:.D88 V:.D89				I		
	V::D55				-	0 \$
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V::D55 V::D56 S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per day, 505873-4 Unit Cost: S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 4" as per day, 505873-4 Unit Cost: S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 4" as per day, 505873-4 Unit Cost: S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 4" as per day, 505873-4 Unit Cost: S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4" as per day, 505873-4 Unit Cost: S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per day, 505873-4 Unit Cost: S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per day, 505873-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per day, 505873-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 5" as per day, 505873-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 505873-4 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per day, 50587						
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Total material Cost per Structure					\$ -	
Total material Cost per Structure						
V::D56 S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-40 Unit Cost: S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-401 Nath Oct. S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-402 Atto Nath Oct. S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 7.5"		Total material Cost per Structure		-		
### 1-056 Assembly and Erection of Superation Tower Type '81 + 2" as part drag 505373-4622-430/Marthour Row #### 1-056 Assembly and Erection of Superation Tower Type '81 + 4.6" as per drag 505373-4622-430/Marthour Row #### 1-056 Assembly and Erection of Superation Tower Type '81 + 6.0" as per drag 505373-4622-430/Marthour Row #### 1-056 Assembly and Erection of Superation Tower Type '81 + 6.0" as per drag 505373-4622-430/Marthour Row ###################################		•		I.		
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V::D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4022-43 Marhour Row:		Total material Cost was Structure		\$ -		
S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per days, 505573-4622-43 Manhour Row:		Total material Cost per Structure			3 -	
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V::D58 \$1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4 Unit Cost: \$1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-430 Manhour Row: \$1-D58 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-430 Manhour Row: \$2						
V::D58 S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4 Unit Cost: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-430 Manhour Row: S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-430 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.				\$ -		
S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-43D Manihour Row: S		Total material Cost per Structure			-	
	V::D58	S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	dwg. 505573-4	Unit Cost:	-	0 \$ -
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V::D59 S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 **Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S1-D59 Assembly and Erection of S				\$ -	\$ -]
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V::D59 S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573 Unit Cost: S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43 Manhour Row:					\$ -]
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		Total material Cost new Ctrusture				1



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D60	S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per	dwg. 505573-4	Unit Cost:	\$ -	6 \$ -
	S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per dwg. 505573-4622-43D	Manhour Row	\$ -	\$ -	<u> </u>
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	Total material Cost per Structure			-	
V::D61	S1-D61 Assembly and Erection of Suspension Tower Type "B1 + 10.5" as p			-	11 \$ -
	S1-D61 Assembly and Erection of Suspension Tower Type "B1 + 10.5" as per dwg. 505573-4622-4	Mannour Row	\$ -	\$ -	
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	Total material Cost per Structure			-	
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe			\$ -	9 \$ -
	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43	Manhour Row	\$ -	-	
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	Total material Cost per Structure			\$ - <u></u>	
V::D63	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as p				
1	31-D63 Assembly and Election of Suspension Tower Type B1 + 13.5 as p	er dwg. 50557	Unit Cost:	\$ -	11 \$ -
*500	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4				11 \$ -
VD00			: -	\$ -	11 \$ -
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	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-4	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-4	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-4	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
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V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per s1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
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V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per s1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
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V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43	r dwg. 505573: Manhour Row	Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost: - Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43	r dwg. 505573: Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D66	S1-D66 Assembly and Erection of Suspension Tower Type "B1 + 18" as pe	r dwg. 505573	- Unit Cost:	\$ -	1 \$ -
	S1-D66 Assembly and Erection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43	Manhour Row		-	T
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D67	S1-D67 Assembly and Erection of Suspension Tower Type "B1 + 19.5" as p			-	0 \$ -
	S1-D67 Assembly and Erection of Suspension Tower Type "B1 + 19.5" as per dwg. 505573-4622-4:	Manhour Row	:	-	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D68	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per	dwg. 505573-	Unit Cost:	\$ -	0 \$ -
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43D	Manhour Row			
			\$ -	\$ - \$ -	
			\$ -	\$ -	
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			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure			\$ -	
V::D69	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as p	er dwg. 50557:	Unit Cost:	\$ -	1 \$ -
V::D69	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as p S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4			\$ -	1 \$ -
V::D69			: -	\$ -	1 \$ -
V::D69					1 \$ -
V::D69			\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	1 \$ -
V::D69			: \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	1 \$ -
V::D69			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ -	1 \$ -
V::D69			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::D69			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::D69			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D69 V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4:	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-430. Total material Cost per Structure	dwg. 505573-	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$
	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-430. Total material Cost per Structure	dwg. 505573- Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$
V::D70	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4: Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per s1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435. Total material Cost per Structure S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-435.	dwg. 505573- Manhour Row	### Cost: S	\$ - \$ - \$ - \$ \$ -	0 \$



	Description	OTV	Limit Dring	Coot novitor	Overtity Total
V::D72	Description S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as pe	QTY	Unit Price	Cost per item	Quantity Total 1 \$ -
VD/2	S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43			Ψ -	- · ·
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Continue Constant		\$ -	\$ - \$ -	
	Total material Cost per Structure	1	1	-	
V::D73	S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic B	ody as per dw	g Unit Cost:	\$ -	28 \$ -
	S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as per dwg. 505573	- Manhour Row			
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		φ -	\$ -	
		1	1		
V::D74	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle			\$ -	3 \$ -
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per	Manhour Row	1		
			\$ -	\$ -	*
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		5 -	\$ -	
V::D75	S1-D75 Assembly and Erection of +10.5 m body extension for Medium Ang		' Unit Cost:	\$ -	0 \$ -
	S1 D75 Assembly and Fraction of +10.5 m body extension for Medium Angle Tower Type "B2" as a				
	S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as p	Manhour Row			
	31-07-3 Assertion and Erection of 10.3 in body extension for intediant Angle Tower Type D2 as a	Manhour Row	\$ -	\$ -	
	OPDIO Assembly and Election of 10.5 in body exension for inequality right fower type b2 as a	Manhour Row	\$ - \$ -	\$ -	
	OPDITARSSERING AND ELECTION OF TOUR HOUSE SHOULD IN MEDICAL PARTY OF THE TOWN TYPE U.S. as a	Manhour Row	\$ -		
	OPDITARSSERINITY and Electron of 10.5 in body extension for inequality range flower type b2, as a	eManhour Row	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	
	G-D/J Assembly and Election of 10.5 in body extension to medium Angle 10 war type 62, as j	eManhour Row	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	
	GPD/3 Assembly and Election of 110.5 in body extension to medium Angle Tower Type 12.2 as j	eManhour Row	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	
	GPD/3 Assembly and Election Of 10.5 in body extension for inequality Angle 10 was type 152 as a	eManhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	
	GPD/3 Assembly and Electron of 10.5 in body extension to medium Angle Tower Type 12. as a	e Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D76	Total material Cost per Structure	wer Type "B2"	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	Unit Cost: S S S S S S S S S S S S S S S S S S	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	S	\$ - \$ - \$ - \$ \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D76	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To	wer Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure	wer Type "B2" w Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	
V::D76 V::D77	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure	wer Type "B2" Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S S S S S S S S S S S S S S S S S S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per de Total material Cost per Structure S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per de Company Type Type "B2" as per de Company Type Type Type Type Type Type Type Typ	wer Type "B2" Manhour Row	Unit Cost: S S S S S S S S S S S S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D78	S1-D78 Assembly and Erection of +3 m leg extension for Medium Angle To			\$ -	16 \$ -
	S1-D78 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "B2" as per dw	Manhour Row	\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
	·		<u> </u>		
V::D79	S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle To S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "B2" as per of			-	24 \$ -
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tov			\$ -	28 \$ -
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dw	/Mannour Row	\$ -	-	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
		<u> </u>	\$ -	-	
	Total material Cost per Structure				
V::D81	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	ower Type "B:	Unit Coots		
				\$ -	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of				8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of			\$ - \$ -	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of		\$ - \$ - \$ -	\$ - \$ - \$	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of		\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of		S	\$ - \$ - \$ - \$ - \$ -	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
	S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per of the state of		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
V::D82		Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8\$ -
V::D82	Total material Cost per Structure	Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw	Manhour Row	Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Total	Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
V::D82	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tov S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure	wer Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	8 \$ -
	Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tows S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per dw Total material Cost per Structure S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Bo	wer Type "B2" wanhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	8 \$ -

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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D84	S1-D84 Assembly and Erection of +4.5 m body extension for Medium Angle	Tower Type "	Unit Cost:	\$ -	0 \$ -
	S1-D84 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C1" as pe	Manhour Row	\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D85	S1-D85 Assembly and Erection of +10.5 m body extension for Medium Angl			-	0 \$
	S1-D85 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C1" as p	(Mannour Row	\$ -	\$ -	
			\$ -	-	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material Cost per Structure	<u> </u>	<u>I</u>	-	
V::D86	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tov			\$ -	40 \$ -
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per dv	Manhour Row	\$ -	-	
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	Total material Cost per Structure			\$ -	
V::D87	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T			\$ -	4 \$ -
V::D87	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type *C1* as per				4 \$ -
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V::D87	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	: Manhour Row	\$ - \$ - \$ - \$ 5 -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per	c Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the second of the	c Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
V::D88	S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1"	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -
	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	16 \$ -
V::D88	S1-D83 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per of the state of	wer Type "C1" wManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	16 \$ -

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V-D91 S1-D91 Assembly and Execution of -5 in leg estension for Medium Angle Tower Type "C" Unit Cost: S1-D92 Assembly and Execution of -9 in leg estension for Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of -9 in leg estension for Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of -9 in leg estension for Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of -9 in leg estension for Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of -9 in leg estension for Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Desire Cost of S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Unit Cost: S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Desire Cost of S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Desire Cost of S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Desire Cost of S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Desire Cost of S1-D93 Assembly and Execution of Medium Angle Tower Type "C" Desire Cost of S1-D93 Assembly and Execution of Medium Angle Tower Type "Unit Cost: S1-D93 Assembly and Execution of 4-5 in model with a finite fin	V::D90				\$ -	8 \$ -
V.:D93 S1-092 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** V.:D95 S1-092 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** Total material Cost per Structure V.:D95 S1-092 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** S1-093 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** S1-093 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** S1-093 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** S1-093 Assembly and Exercise of 4-78 m/g steering for Medium Angle Tower Type *C1** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-093 Assembly and Exercise of Medium Angle Tower Type *C2** S1-094 Assembly and Exercise of Medium Angle Tower Type *C2** S1-094 Assembly and Exercise of *G3** S1-094		S1-D90 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C1" as per dw	Manhour Row:		\$ -	
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V::D03 St.D01 Assembly and Encision of 475 in lag estendants for Medium Angle Tower Type *Ct* Unit Cost: 1						
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31 20 Assembly and Sirector of #75 in log electrosic for Medium Angle Tower Type **C1** Unit Cost:				I		
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V::DB2 V::DB2 S1-DB2 Assembly and Erection of 49 m leg extension for Medium Angle Tower Type "C1" Unit Cost: S1-DB2 Assembly and Erection of 49 m leg extension for Medium Angle Tower Type "C1" Unit Cost: S1-DB2 Assembly and Erection of 49 m leg extension for Medium Angle Tower Type "C1" Unit Cost: S1-DB2 Assembly and Erection of 40 m leg extension for Medium Angle Tower Type "C2" Basic Body as per dwg Unit Cost: S1-DB2 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg Unit Cost: S1-DB2 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg Unit Cost: S1-DB2 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg Unit Cost: S1-DB2 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg Unit Cost: S1-DB2 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg Unit Cost: S1-DB2 Assembly and Erection of 4.5 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.5 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.5 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-DB2 Assembly and Erection of 4.0.2 m body extension for Medium Angle Tower Type "Unit Cost: S1-						
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St-Digit Assembly and Erection of +0 m leg extension for Medium Angle Tower Type *CC** as per Marthout Row.	V. 55-	•		11-24 6 4		
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V::D93 S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg. Unit Cost:		Total material Cost was Structure		\$ -		
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S1-D94 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C2" as per Manhour Row: S		Total material Cost per Structure			-	
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V::D95 S1-D95 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type ' Unit Cost: \$ - 0 \$ - S1-D95 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C2" as pt Manhour Row: \$ - 0 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				\$ -	\$ -	
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3-1-98 Assembly and Erection of 4-9 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-9 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erection of 4-15 m leg extension for Medium Angle Tower Type **C2** Unit Cost: 5-1-98 Assembly and Erecti						
No. 1006 Assembly and Exection of 4.5 m lag extension for Medium Angle Tower Type *C2 Unit Costs		Description	QTY	Unit Price	Cost per item	Quantity Total
N.:599 S-1094 Assembly and Executor 6 + 3 m leg extension for Medium Angle Tower Type 122 Unit Cost:	V::D96				\$ -	40 \$ -
V-1097 St 1097 Assembly and Encelor of +1.5 milg extension for Medium Angle Tower Type *C2* Unit Cost:		אסבט-ובס Assertibly and בויפכווסוז סו +∪ m leg extension for medium Angle Tower Type "C2" as per dw	riviarifiOuf KOW		\$ -	
VI:099 31-097 Assembly and Erection of +1.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +1.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +1.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +1.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +3 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +3 m log extension for Medium Angle Tower Type *C2* Unit Cost 11 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 12 S Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 13 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 14 S Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 15 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 15 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 16 S Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 17 Ordal material Cost per Structure 18 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 18 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 18 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 19 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 19 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Type *C2* Unit Cost 10 Of Assembly and Erection of +4.5 m log extension for Medium Angle Tower Typ						
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St-027 Assembly and Exection of +1.5 m leg extension for Medium Angle Tower Type *C2* Unit Cost:						
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1-097 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type *C2 Unit Cost:		Total material Coot new Structure		\$ -		
St267 Assembly and Exection of +1.5 am squ steamon for Medium Angle Tower Type *C2* upor C2* upor		Total material Cost per Structure	1	L		
	V::D97	S1-D97 Assembly and Erection of +1.5 m leg extension for Medium Angle To	ower Type "Ca	2 Unit Cost:	\$ -	12 \$ -
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No.1008 St-009 Assembly and Exection of +3 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +3 m leg extension for Medium Angle Tower Type *C2** as per als Marthour Row. St-009 Assembly and Exection of +4.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-009 Assembly and Exection of +4.5 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +4.5 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +4.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-009 Assembly and Exection of +4.5 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +4.5 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** Unit Cost: St-009 Assembly and Exection of +6 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-009 Assembly and Exection of +7.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-000 Assembly and Exection of +7.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-000 Assembly and Exection of +7.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-000 Assembly and Exection of +7.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-000 Assembly and Exection of +7.5 m leg extension for Medium Angle Tower Type *C2** unit Cost: St-000 Assembly and Exection of +8.5 m leg extension for Medi				<u> </u>		
Total material Cost per Structure						
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St-D86 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type *C2* Unit Cost: St-D86 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type *C2* as para Marihour Row St-D86 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D86 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D87 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D87 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D87 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D87 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type *C2* unit Cost: St-D87 Assembly and Erection of +7.5 m leg extension for Medium An		Total material Cost per Structure		Ψ -		
St-D99 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type *C2* up or day Marihour Row.		Total material cost per off details		1		
	V::D98	S1-D98 Assembly and Erection of +3 m leg extension for Medium Angle Tov	ver Type "C2"	Unit Cost:	\$ -	16 \$ -
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St-D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per t Manhour Row: St-D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per t Manhour Row: St-D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per t Manhour Row: St-D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per t Manhour Row: St-D99 Assembly and Erection of +5 m leg extension for Medium Angle Tower Type "C2" Unit Cost: St-D99 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per thanhour Row: St-D99 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as						
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St-D90 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per Amarhour Row:		Total Material Cook per Chaptare				
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S1-D100 S1-D100 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" us per d Manhour Row:		Total material Cost per Structure		Ψ		
St-D100 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per d Manhour Row: S					1.*	
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		S1-D100 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per d	Manhour Row			
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\$1-D101 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per Manhour Row:		Total material Cost per Structure				
\$1-D101 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per Manhour Row:						
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D102	S1-D102 Assembly and Erection of +9 m leg extension for Medium Angle T	ower Type "C2	Unit Cost:	\$ -	8 \$ -
	S1-D102 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per	d Manhour Row	: \$ -	\$ -	
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V::D103	S1-D103 Assembly and Erection of Dead-End Tower Type "D1" Basic Body			-	42 \$ -
	S1-D103 Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-46	Mannour Row	': \$ -	\$ -	
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V::D104	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End To			\$ -	0 \$ -
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per of	Manhour Row	\$ -	-	
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V::D105	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End T	ower Type "D	1 Unit Cost:	\$ -	0 \$ -
V::D105	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End T S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per		r.		0 \$ -
V::D105				\$ -	0 \$ -
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V::D105	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D105			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure	c Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D105	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per	cManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower	cManhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower	cManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower	cManhour Row	Unit Cost:	\$ - \$ - \$ \$ \$ - \$	
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	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower	cManhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower	cManhour Row	Unit Cost: Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
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V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
	S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ \$	
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ \$	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -
V::D106	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per Total material Cost per Structure S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg S1-D106 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg Total material Cost per Structure S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Tower Type "D1" as per dwg	Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	88 \$ -



Description	QTY	Unit Price	Cost per item	Quantity Total
V::D108 S1-D108 Assembly and Erection of +3 m leg extension for Dead-End Tow			\$ -	16 \$ -
S1-D108 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dv	g. Manhour Row			1
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V::D109 S1-D109 Assembly and Erection of +4.5 m leg extension for Dead-End To			\$ -	4 \$ -
S1-D109 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per	wg Manhour Row			
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V::D110 S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tow	er Type "D1" as	Unit Cost:	\$ -	28 \$ -
S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dv				
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V: D111 S1-D111 Assembly and Frection of +7.5 m leg extension for Dead-End To	ver Type "D1" a	Unit Cost:		8 \$ -
V::D111 S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End To S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per				8 \$ -
V::D111 S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End To S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per-				8 \$ -
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S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ -
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S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure	wg Manhour Row	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ \$ 5 \$ - \$ \$ \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	\$ - \$ - \$ - \$ - \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	8 \$ - - - - - - - - - - - - - - - - - - -
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S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	S	\$ - \$ - \$ - \$ 5 -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per . Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type *D1* as per dv S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type *D1* as per dv	wg Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per. Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tow	wg Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type *D1* as per Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type *D1* as per dv S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type *D1* as per dv Total material Cost per Structure	er Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ \$ -	4 \$ -
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S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per Total material Cost per Structure V::D112 S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dv S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dv Total material Cost per Structure V::D13 S1-D113 Assembly and Erection of Dead-End Tower Type "D2" Basic Boo	er Type "D1" as g. !Manhour Row	Unit Cost: Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -



	•	QTY	Unit Price	Cost per item	Quantity Total
V::D114	S1-D114 Assembly and Erection of +4.5 m body extension for Dead-End To			\$ -	0 \$ -
	S1-D114 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D2" as per do	Manhour Row			
			\$ -	\$ -	
			\$ -	\$ -	
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	Total material Cost per Structure		Φ -	\$ -	
	Total material cost per structure		1		
V::D115	S1-D115 Assembly and Erection of +10.5 m body extension for Dead-End To	ower Type "D2	Unit Cost:	\$ -	0 \$ -
	S1-D115 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D2" as per of			—	
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	Total material Cost per Structure			\$ -	
	•				
V::D116	S1-D116 Assembly and Erection of +0 m leg extension for Dead-End Tower	Type "D2" as	Unit Cost:	\$ -	32 \$ -
	S1-D116 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg.	Manhour Row			
			\$ -	\$ -	
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	,		\$ -	\$ -	
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure			\$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe			\$ -	16 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg			\$ -	16 \$ -
V::D117			\$ -	\$ -	16 \$ -
V::D117			\$ -	\$ - \$ -	16 \$ -
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V::D117			\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	16 \$ -
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V::D117			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	16 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	16 \$ -
V::D117			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	16 \$ -
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117 V::D118	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	16 \$ - 28 \$ -
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg.	Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
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V::D118	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure	Type "D2" as Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	28 \$ -
V::D118	S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg.	Type "D2" as Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ -
V::D118	S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg.	Type "D2" as Manhour Row	Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ \$ -	28 \$ -
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V::D118	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure Total material Cost per Structure S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg.	Type "D2" as Manhour Row	Unit Cost: Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ - \$ \$ -	28 \$ -
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V::D120	Description S1-D120 Assembly and Erection of +6 m leg extension for Dead-End Tower	QTY	Unit Price	Cost per item	Quantity Total 0 \$ -
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V::D121	S1-D121 Assembly and Erection of +7.5 m leg extension for Dead-End Towe			-	0 \$ -
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V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower	Type "D2" as i	Unit Cost:	\$ -	8 \$ -
VD 122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg.		OTHE GOOD.		
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V::D123	S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body			\$ -	16 \$ -
	S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-462	Manhour Row:		-	T
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V::D124	S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End Tov S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "E1" as per dv			-	0 \$ -
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V::D125	S1-D125 Assembly and Erection of +10.5 m body extension for Dead-End To		Unit Cost:	\$ -	0 \$ -
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VD126	Description S1 D126 Accombly and Fraction of J.O.m.log extension for Dood End Tower	QTY	Unit Price	Cost per item	Quantity Total
V::D126	S1-D126 Assembly and Erection of +0 m leg extension for Dead-End Tower S1-D126 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "E1" as per dwg.			-	20 \$ -
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V::D127	S1-D127 Assembly and Erection of +1.5 m leg extension for Dead-End Towe			-	12 \$ -
	S1-D127 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "E1" as per dwg	Manhour Row			
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V::D128	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower	Type "F1" as i	Unit Cost	\$ -	8 \$ -
VD120	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg.		Offic Gost.		0 0
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V::D129	S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Towe		Unit Cost:	\$ -	12 \$ -
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V::D129	S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Total material Cost per Structure S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	12 \$ - - - - - - - - - - - - - - - - - - -
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	S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Total material Cost per Structure S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::D130	S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Total material Cost per Structure S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg.	Type "E1" as Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$
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Total material Cost per Structure		Ψ -	\$ -	
	1		1 7	
V::E01 S1-E1 Installation of Counterpoise wire, connection with tower grounding		Unit Cost:	\$ -	397 \$ -
S1-E1 Installation of Counterpoise wire, connection with tower grounding	Manhour Row			
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Total material Cost per Structure	L		-	
Vi-FOO Of FO hatallation of manual and at associate short-size in self-and scale		Heit Ocet		000 6
V::E02 S1-E2 Installation of ground rods at crossing obstacles in soil and rock	Manhour Row	Unit Cost:	\$	200 \$ -
S1-E2 Installation of ground rods at crossing obstacles in soil and rock	Mannour Row		-	
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Total material cost per structure				
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V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	Unit Cost:	\$ -	397 \$ -
	Manhour Row		_	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ -	\$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ -	\$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	397 \$ -
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V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 A	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	397 \$ -
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V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 A	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E3 Tower Footing resistance measurement Total material Cost per Structure	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E3 Tower Footing resistance measurement Total material Cost per Structure	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E3 Tower Footing resistance measurement Total material Cost per Structure	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E3 Tower Footing resistance measurement Total material Cost per Structure	CSR Conducto	\$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 A	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E3 Tower Footing resistance measurement Total material Cost per Structure	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 5 -	
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V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	S	\$ - \$ - \$ - \$ \$ -	
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compared to the stallation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor on Steel Towers - 3633.0 kcmil 110/7 ACS	CSR Conducto	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
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V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -
V::E03 S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total material Cost per Structure V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, com Total material Cost per Structure V::E05 S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	CSR Conducto	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	250 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::E06	S1-E6 Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR			\$ -	99 \$ -
	S1-E6 Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR Falcon Conductor, con	riviannour Row	\$ -	\$ -	
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			\$ - \$ -	\$ - \$ -	
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			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		*	\$ -	
V::E07	S1-E7 Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR C	Grackle Condu	Unit Cost:	-	18 \$
	S1-E7 Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR Grackle Conductor, con	Manhour Row	\$ -	-	
			\$ -	-	
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	Total material Cost per Structure		\$ -	\$ - \$ -	
VF00		:-l 6 '			
V::E08	S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR F S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR Falcon Conductor, com			\$ -	0 \$ -
			\$ -	\$ -	
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	Total material Cost per Structure			\$ -	
V::E09	S1-E9 Installation of ADSS on Wood Poles		Unit Cost:	\$ -	18 \$ -
V::E09	S1-E9 Installation of ADSS on Wood Poles S1-E9 Installation of ADSS on Wood Poles	Manhour Row			18 \$ -
V::E09		Manhour Row	: -	\$ -	18 \$ -
V::E09		Manhour Row	\$ - \$ - \$ -	\$ - \$ - \$	18 \$ -
V::E09		Manhour Row	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	18 \$ -
V::E09		Manhour Row	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	18 \$ -
V::E09		Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	18 \$ -
V::E09		Manhour Row	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	18 \$ -
V::E09	S1-E9 Installation of ADSS on Wood Poles	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	18 \$ -
V::E09		Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	18 \$ -
V::E09 V::E10	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	18 \$ - - - - - - - - - - - - - - - - - - -
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure	Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis		Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis		Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis		Unit Cost: \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis		Unit Cost: S	\$ - \$ - \$ - \$ \$ -	
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure		Unit Cost: S	\$ - \$ - \$ - \$ \$ -	6 \$ -
	S1-E9 Installation of ADSS on Wood Poles Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	6 \$ -
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ -
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	6 \$ -
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	6 \$ -
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ -
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	6 \$ -
V::E10	Total material Cost per Structure S1-E10 ADSS splicing and tests including loss analysis S1-E10 ADSS splicing and tests including loss analysis Total material Cost per Structure Total material Cost per Structure S1-E11 ADSS end to end test	Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 \$ -



Sile 23 St. Installation of OPGW Sile 23 St. 35 St.			OT)	11 % B 1	I a	D 41
Maintour Rox	VE12	Description S1 E13 S1 Installation of ORGW	QTY	Unit Price	Cost per item	Quantity Total
V.:E13 Sile 10 PCM well-area was interesting and tests including loss analysis Sile 10 PCM well-area was S	VE12		Manhour Row:		ф -	250 \$
				\$ -		
V::E13 Site 10 DPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Continuity tests before and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringing Will Cost: Site 10 SPOW Cost tests and after stringin						
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Variable Variable		Description	QTY	Unit Price	Cost per item	Quantity Total
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VI:500 SI-GS Framing and Setting of Single Pole Reavy angle (10 - 30 deg) with Guys as per Draw Unit Cost \$ 2,300.00 7 \$ 16,100.00		Total material Cost per Structure				
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Windergook 2 mt blast 0.4 \$ 6,759,000 \$ 2,000	V::G03	S1-G3 Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with G	ıys as per Drav	Unit Cost:	\$ 2,300.00	7 \$ 16,100.00
		Wood pole 2 m blast	0.4			
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V::004 S1-C4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawin Unit Cost: \$ 2,300,00 11 S 25,300,00		Total material Cost per Structure				
Since Framing and Stating of Stayle Pole Dead-and (05-00 loop) with Cuye as per Drawing (055) Since Si						
Wood pole 2 m blast	V::G04				\$ 2,300.00	11 \$ 25,300.00
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V::G05 S1-05 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per I Unit Cost: S1-05 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per I Unit Cost: S1-05 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per I Unit Cost: S1-05 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per I Unit Cost: S1-05 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per I Unit Cost: S1-05 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-05 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-06 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-06 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-06 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-06 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-06 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-07 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-08 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-08 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-08 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-08 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Unit Cost: S1-08 Framing and Setting of Time Pole Dead-end to tap to HVdc Tower in Labrador as per Dead to Time Dead to Time Dead to Time Dead to Time Dead to Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time Dead Time D						
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S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Unit Cost: \$ 2,300.00 9 \$ 20,700.00		<u> </u>	/			
St-SS Framing and Setting of Single Pole Floating Dend-and (0 - 1 day) with Gives as per Drawing 1 Marthout Row: Wood pole 2 m blast		Total material Cost per Structure			\$ 2,300.00	
St-SS Framing and Setting of Single Pole Floating Dend-and (0 - 1 day) with Gives as per Drawing 1 Marthout Row: Wood pole 2 m blast						
Wood pole 2 m blast						
	V::G05				\$ 2,300.00	9 \$ 20,700.00
S S C	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row			9 \$ 20,700.00
S	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00	\$ 2,300.00	9 \$ 20,700.00
S	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ -	\$ 2,300.00	9 \$ 20,700.00
	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ - \$ -	\$ 2,300.00 \$ - \$ -	9 \$ 20,700.00
S	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ -	9 \$ 20,700.00
S	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ -	9 \$ 20,700.00
Since Sinc	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ -	9 \$ 20,700.00
Total material Cost per Structure	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 20,700.00
V::008 S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as pe Unit Cost: S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing Manhour Row: Wood pole 2 m blast	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	9 \$ 20,700.00
St-06 Faming and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawin; Manhour Row:	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast	Manhour Row	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
St-06 Faming and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawinc Manhour Row:	V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast	Manhour Row	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
Wood pole 2 m blast		S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure	€Manhour Row 0,4	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I01 S1-II Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Manhour Row: S		S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in	eManhour Row 0,4	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ 2,300.00
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Description	QTY	Unit Price		Quantity Total
V::102 S1-I2 Design and supply of micropile option as replacement for H-pile desi	gn Manhour Row	Unit Cost:	-	2 \$ -
S1-I2 Design and supply of micropile option as replacement for H-pile design	Mailloui Row	\$ -	\$ -	
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Total material Cost per Structure		ų.	\$ -	
V::103 S1-I3 Optional cost for mulching given area instead of salvaging	–	Unit Cost:	-	2207 \$ -
S1-I3 Optional cost for mulching given area instead of salvaging	Manhour Row	\$ -	-	
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Total material Cost per Structure		<u> </u>	\$ -	
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V::I04 S1-I4 Installation of Access Road - Alternative		Unit Cost:	\$ -	79 \$ -
S1-I4 Installation of Access Road - Alternative	Manhour Row			
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Total material Cost per Structure		φ -	\$ -	
	m Terminal To		\$ -	2 \$ -
V::I05 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW fro		Unit Cost:		2 \$ -
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V::I05 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW fro		Unit Cost:	\$ - \$ - \$ -	2 \$ -
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V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1		Unit Cost: \$ - \$ - \$ \$ \$ \$ \$ \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
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V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1. Total material Cost per Structure	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AE	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
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V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AE	h Manhour Row	Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AE	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AE	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AE	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor S	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AE	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 1 Total material Cost per Structure V::106 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installat	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor S	h Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 19 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost: S	\$ - \$ - \$ - \$ - \$	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::105 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to 10 S1-I5 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal World S1-I6 Slack Span Connections - Installation of all Conductor a	OSS from Term o Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I08	S1-I8 Supply and Installation of Culvert - 1200 mm	14	Unit Cost:	\$ -	44 \$ -
	S1-I8 Supply and Installation of Culvert - 1200 mm	Manhour Row		г.	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$	
	Total material cost per structure			a	
V::I09	S1-I9 Supply and Installation of Culvert - 1600 mm		Unit Cost:	-	44 \$ -
	S1-I9 Supply and Installation of Culvert - 1600 mm	Manhour Row	\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$	\$ - \$ -	
			\$ -	\$ - \$ -	
			\$ -	\$	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		-	\$ -	
					44.0
V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm S1-I10 Supply and Installation of Culvert - 2000 mm	Manhour Row	Unit Cost:	\$ -	44 \$ -
	O 1-110 dapping and installation of durent - 2000 min	Widningar From	\$ -	-	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::I11	C4 I44 Cumply and Installation of Culvert 2400 mms		Unit Cost:	\$ -	44 \$ -
V	S1-I11 Supply and Installation of Culvert - 2400 mm		Ullit Cost.	J -	44 p -
	S1-I11 Supply and Installation of Culvert - 2400 mm	Manhour Row		•	
	S1-I11 Supply and Installation of Culvert - 2400 mm	Manhour Row	\$ -	\$ -	
	S1-I11 Supply and Installation of Culvert - 2400 mm	Manhour Row	\$ -	\$ - \$ -	
	S1-I11 Supply and Installation of Culvert - 2400 mm	Manhour Row	\$ - \$ -	\$ - \$ -	
	S1-I11 Supply and Installation of Culvert - 2400 mm	Manhour Rows	\$ - \$ -	\$ - \$ -	
	S1-111 Supply and Installation of Culvert - 2400 mm	Manhour Row	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	
	S1-111 Supply and Installation of Culvert - 2400 mm	Manhour Row	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-111 Supply and Installation of Culvert - 2400 mm	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I11 Supply and Installation of Culvert - 2400 mm Total material Cost per Structure	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
VH2	Total material Cost per Structure	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44.\$
V::H2		Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	44 \$ -
V::H2	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::I12	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	44 \$ -
V::I12 V::I13	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert - 3000 mm	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert - 3000 mm Total material Cost per Structure	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert-3000 mm Total material Cost per Structure S1-I13 Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



	1.		-	
Description	QTY	Unit Price	Cost per item	Quantity Total
S1-I14 Assembly and Installation of Foundation Type A2-1/1A, per kg, to			-	1 \$
S1-I14 Assembly and Installation of Foundation Type A2-1/1A, per kg, to be used for weight in	crease Manhour Ro			I
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
Total material Cost per Structure			\$ -	
5 S1-I15 Assembly and Installation of Foundation Type A3-1/1A, per kg, to			-	1 \$
S1-I15 Assembly and Installation of Foundation Type A3-1/1A, per kg, to be used for weight in	crease Manhour Ro			
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
Total material Cost per Structure			\$ -	
Total material cost per otructure			Ψ	
S1-I16 Assembly and Installation of Foundation Type A4-1/1A, per kg, to	he used for we	iak Unit Cost	\$	1 \$
S1-I16 Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight inc				
5 7.555511151y and installation of Foundation Type A4-1/TA, per kg, to be used for weight ind	S. Sust Main IOUI TO	\$ -	-	
 		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
A		\$ -	\$ -	
Total material Cost per Structure			\$ -	1
7 S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to			\$ -	1 \$
7 S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in		ow:	\$ -	1 \$
		s -	\$ -	1 \$
		\$ - \$ - \$ -	\$ - \$ - \$ -	1 \$
		S - S - S -	\$ - \$ - \$ -	1 \$
		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	1 \$
		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ -	1 \$
		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ -	1 \$
		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	ow:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	ow:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	ow:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	ow: \$ - \$ - \$ - \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight incention Type B2-1/1A, per kg, to be used	b be used for we	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure	o be used for we	ow: \$ - \$ - \$ - \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure	b be used for we crease Manhour Ro	ow: \$ - \$ - \$ - \$ \$ - \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: \$ - \$ - \$ - \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: \$ - \$ - \$ - \$ \$ - \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
S1-I17 Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight in Total material Cost per Structure S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to S1-I18 Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight in Total material Cost per Structure Total material Cost per Structure S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be	b be used for we crease Manhour Ro	ow: \$ - \$ - \$ - \$ \$ - \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$



20	Description	QTY	Unit Price	Cost per item	Quantity Total
	S1-I20 Assembly and Installation of Foundation Type C2-1, per kg, to be use			\$ -	1 \$
	S1-I20 Assembly and Installation of Foundation Type C2-1, per kg, to be used for weight increases				
			\$ -	\$ - \$ -	4
			\$ -	\$ -	
			\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure			\$ -	
1	S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases of S1-I21 Assembly and Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Weight Installation On Type D1-1, per kg, to be used for Wei			-	1 \$
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2	S1-I22 Assembly and Installation of Foundation Type D2-1, per kg, to be use	nd for woight i	Unit Cost	\$ -	1 \$
-	S1-I22 Assembly and Installation of Foundation Type D2-1, per kg, to be used for weight increases			9	IΨ
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3	S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases of S1-I23 Assembly and Installation O1-I23 Assembly and Installation O1-I23 Assembly and Installation O1-I23 Assembly and Installation O1-I23 Assembly A			\$	1 \$
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	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	
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1	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
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1	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
4	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
1	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
1	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
ı	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
ı	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
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ı	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
ı	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be use		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
	S1-124 Assembly and Installation of Foundation Type A1-2, per kg, to be used S1-124 Assembly and Installation of Foundation Type A1-2, per kg, to be used for weight increases of the state	o Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation the stallation the stallation the s	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	1 \$
	S1-124 Assembly and Installation of Foundation Type A1-2, per kg, to be used S1-124 Assembly and Installation of Foundation Type A1-2, per kg, to be used for weight increases of the state	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation the stallation the stallation the s	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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5	S1-I24 Assembly and Installation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A1-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for weight increases of the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation of Foundation Type A2-2, per kg, to be used for the stallation the stallation the stallation the s	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I26	S1-I26 Assembly and Installation of Foundation Type A3-2, per kg, to be use	d for weight i	r Unit Cost:	\$ -	1 \$ -
	S1-I26 Assembly and Installation of Foundation Type A3-2, per kg, to be used for weight increases of	Manhour Row	\$ -	\$ -	
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			\$ -	\$ -	
	Total material Cost per Structure			-	
V::I27	S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for Weight Installation of Foundation Type A4-2, per kg, to be used for Weight Installation Ins			-	1 \$ -
	S1-I27 Assembly and Installation of Foundation Type A4-2, per kg, to be used for weight increases of	iviannour Row	\$ -	\$ -	
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	Total material Cost per Structure		\$ -	\$ - \$ -	
		<u> </u>	1	Ψ -	
V::I28	S1-I28 Assembly and Installation of Foundation Type B1-2, per kg, to be use			\$	1 \$ -
	S1-I28 Assembly and Installation of Foundation Type B1-2, per kg, to be used for weight increases of	INIAHHOUF KOW	\$ -	-	
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	T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		\$ -	\$ -	
	Total material Cost per Structure			-	
				*	
V::I29	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be use			\$ -	1 \$ -
V::I29	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of				1 \$ -
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V::I29			\$ - \$ - \$ -	\$ - \$ - \$	1 \$ -
V::I29			:	\$ -	1 \$ -
V::129			S	\$ - \$ - \$ - \$ - \$ -	1 \$ -
V::129			S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::I29			S	\$ - \$ - \$ - \$ - \$ -	1 \$ -
V::I29	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::I29			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::129 V::130	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for the stallation of Foundation Type C1-2, per kg, to be used for the stallation of Foundation Type C1-2, per kg, to be used for the stallation of Foundation Type C1-2, per kg, to be used for the stallation of Foundation Type C1-2, per kg, to be used for the stallation of Foundation Type C1-2, per kg, to be used for the stallation of Foundation Type C1-2, per kg, to be used for the stallation o	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	Tunit Cost: Tunit Cost: Tunit Cost:	\$ - \$ - \$ - \$ \$ -	
V::l30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the state of the stat	ed for weight i	T Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::l30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	Tunit Cost: Tunit Cost: Tunit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$ -
V::I30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	S	\$ - \$ - \$ - \$ \$ -	1 \$ -
V::I30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	1 \$ -
V::I30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	S	\$ - \$ - \$ - \$ \$ -	1 \$ -
V::I30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::I30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	T Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
V::I30	S1-I29 Assembly and Installation of Foundation Type B2-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used S1-I30 Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C1-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, per kg, to be used for weight increases of the stallation of Foundation Type C2-2, pe	ed for weight i	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I32	S1-l32 Assembly and Installation of Foundation Type D1-2, per kg, to be use	ed for weight i	r Unit Cost:	\$ -	1 \$ -
	S1-I32 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of	Manhour Row	/: - -	\$ -	<u> </u>
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	Total material Cost per Structure	<u> </u>	I.	-	
V::I33	S1-I33 Assembly and Installation of Foundation Type D2-2, per kg, to be use S1-I33 Assembly and Installation of Foundation Type D2-2, per kg, to be used for weight increases a			-	1 \$ -
	S1-iss Assembly and installation of Foundation Type b2-2, per kg, to be used for weight increases to	civialilloui Row	\$ -	-	
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	Total material Contract Contract		\$ -	\$ -	
	Total material Cost per Structure		1	-	
V::I34	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be use			\$ -	1 \$ -
	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of	Manhour Row	\$ -	-	
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	A	/	\$ -	\$ -	
	Total material Cost per Structure				
V::I35	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for wei			*	
	O1-103 A336111biy and Liection of Tower Type A1, per kg, to be used for well	ght increases	c Unit Cost:	\$ -	1 \$ -
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases.		r:		1 \$ -
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V::136	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decrea	s Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated as the state of the st	s Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::l36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	C Unit Cost: C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	
V::l36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	C Unit Cost: C Unit Cost: C S S S S S S S S S S S S S S S S S S	\$ - \$ - \$ \$	
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
V::I36	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreated and the state of the s	s Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ \$	
	Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used f	ght increases	C Unit Cost: C Unit Cost: C S S S S S S S S S S S S S S S S S S	\$ - \$ - \$ - \$ \$ -	1 \$
V::l36 V::l37	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used for weight increases or decreation of Tower Type A2, per kg, to be used f	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$ -
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$ -
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$ -
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
	S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases.	ght increases Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I38	S1-I38 Assembly and Erection of Tower Type A4, per kg, to be used for weight	ght increases	Unit Cost:	\$ -	1 \$ -
	S1-I38 Assembly and Erection of Tower Type A4, per kg, to be used for weight increases or decreases	Manhour Row	: -	\$ -	Ī
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::I39	S1-I39 Assembly and Erection of Tower Type B1, per kg, to be used for wei S1-I39 Assembly and Erection of Tower Type B1, per kg, to be used for weight increases or decrea:			-	1 \$ -
	31-109 Assembly and Election of Tower Type B1, per kg, to be used for weight increases of decrease	SWAIIIOUI TOW	-	\$ -	
			\$ -	-	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material Cost per Structure	1	1	-	
V::I40	S1-I40 Assembly and Erection of Tower Type B2, per kg, to be used for weight			\$ -	1 \$ -
	S1-I40 Assembly and Erection of Tower Type B2, per kg, to be used for weight increases or decreases	Manhour Row	\$ -	-	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
		1	\$ -	\$ -	
	Total material Cost per Structure			-	
V::I41	Od 144 Accomply and Freedom of Towns Time Od and he to be used formal				
•	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei	ght increases	Unit Cost:	\$ -	1 \$ -
••	S1-41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea				1 \$ -
**1				\$ -	1 \$ -
•			\$ - \$ - \$ -	\$ - \$ -	1 \$ -
			\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	1 \$ -
			\$ - \$ - \$ -	\$ - \$ -	1 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
	S1-H1 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	C Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
V::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	ght increases	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
V::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I43 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I43 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	1 \$
V::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-I43 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::I42	S1-H1 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H3 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::I42	S1-H1 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H3 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	1 \$
V::I42	S1-H1 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H3 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::I42	S1-H1 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H3 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::I42	S1-H1 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea S1-H2 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decrea Total material Cost per Structure S1-H3 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decrea	ght increases Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I44	S1-I44 Assembly and Erection of Tower Type D2, per kg, to be used for weight			\$ -	1 \$ -
	S1-I44 Assembly and Erection of Tower Type D2, per kg, to be used for weight increases or decreas	Manhour Row	\$ -	\$ -	
			\$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::I45	S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weig S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weight increases or decrease			\$ -	1 \$
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$	\$ -	
			\$ -	\$ -	
			\$ -	\$	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::I46	S1-I46 Survey Cost		Unit Cost:	\$ 2,865,292.91	1 \$ 2,865,292.91
		Manhour Row		2,000,202.0	
	Survey Cost Segment 1		\$ 1,416,911.33	\$ 1,416,911.33	
	Survey Cost Segment 2	1	\$ 1,448,381. 58		
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	4
			\$ -	\$ -	-
			\$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 2,865,292.91	
				*	
B-E(Rider)	RiderPole RiderPole	Manhour Row	Unit Cost:	\$ 236.90	100 \$ 23,690.00
	Screened Crushed Rock (Tonne)	5		\$ 236.90	
			\$ -	\$ -	_
			\$ -	\$ -	<u> </u>
			\$ -	\$ -	4
			\$ -	\$ - \$ -	4
	Total material Cost per Structure		Ψ -	\$ 236.90	-
	Total Materials:	\$	194,969,967.79	ı	







no (yes/no) 5600 km 70 km/hr.

External Data Input	Return?
Link from Other Page	Distance (1-way):
Link for Other Page	Average distance/hr.:

Personnel

Designation	Quantity	Rate	Hrs.
Supervisor	2	\$ 142.83	80.00
Foreman	25	\$ 120.15	80.00
Surveyor	10	\$ 111.85	80.00
Lineman	30	\$ 111.85	80.00
Apprentice - 4th Year	22	\$ 103.90	80.00
Apprentice - 3rd Year	35	\$ 95.95	80.00
Apprentice - 2nd Year	14	\$ 87.99	80.00
Apprentice - 1st Year	6	\$ 80.04	80.00
Equipment Operator	43	\$ 96.49	80.00
Truck Driver / Picker Op.	36	\$ 107.16	80.00
Labourer	6	\$ 87.44	80.00

Equipment

Description	Quantity	Rate	Hrs.
Pickup	19	\$ 24.36	80.00
Crew Cab Truck	61	\$ 29.20	80.00
Conductor Splicing Truck	2	\$ 46.02	80.00
OPGW Splicing Truck	2	\$ 93.60	80.00
Picker - 17 Ton	11	\$ 136.27	80.00
Picker - 38 Ton	3	\$ 180.25	80.00
40T RT Crane	5	\$ 195.70	80.00
60T RT Crane	1	\$ 247.20	80.00
80T RT Crane	2	\$ 345.05	80.00
Digger - TelElect 5052	4	\$ 89.40	80.00
120' Gene Lift	3	\$ 87.55	80.00
53' Tridem trailer	23	\$ 11.85	80.00
T/A Gravel Truck	1	\$ 68.13	80.00
T/A Rock Truck	1	\$ 121.67	80.00
Tractor Trailer/Picker	6	\$ 134.67	80.00
Tractor Trailer (Heavy)	7	\$ 134.67	80.00
Crawler Tractors 750 JD	5	\$ 165.83	80.00
JD 310 Back Hoe	1	\$ 68.13	80.00
JD 554 Loader	19	\$ 69.27	80.00
JD 290 Track-hoe	9	\$ 130.60	80.00
Nodwells - Picker over 17 Ton	4	\$ 228.25	80.00
Nodwell - Digger	1	\$ 130.60	80.00
Trencher	1	\$ 84.36	80.00
10T Tele-Handler	10	\$ 53.00	80.00
Quad or Side by Side	13	\$ 24.21	80.00
Reel Trailer	4	\$ 72.10	80.00
Tensioner	1	\$ 139.05	80.00
Puller	1	\$ 139.05	80.00
1 Drum Puller	1	\$ 77.25	80.00
Single Tensioner	1	\$ 77.2 5	80.00
Single Traveller	150	\$ 0.52	80.00
JD 350 LDC Excavator	6	\$ 160.89	80.00
Compressor	3	\$ 22.04	80.00
Grout truck	2	\$ 82.40	80.00
Rock Drill	2	\$ 103.00	80.00
Press & Pump, Genset, Light plant	21	\$ 13.46	80.00
Water pump	4	\$ 40.99	80.00
Pilot Line Winder	1	\$ 92.70	80.00
Spacer Buggy	3	\$ 46.35	80.00
Travellers (ea)	200	\$ 1.24	80.00
Traffic Control Sign	2	\$ 21.84	80.00
Hoe-Pack	2	\$ 25.75	80.00
Survey Equipment	10	\$ 56.65	80.00
Heavy Lift Helicopter - Operated	1	\$ 17,725.89	16.00
Light Duty Helicopter - Operated	1	\$ 1,905.50	20.00

Lowbedding

Description	Quantity	Rate	Hrs.
Dead-hea <mark>ds</mark>	70	\$ 218.50	160.00
Direct-hauls	8	\$ 218.50	80.00



External Data Input Link from Other Page Link for Other Page

18 Months 450 Days Project Duration:

	Positions	Hrs Day	Days	Hourly Rate
Quanta Executive Representative	1	11	225	N/C
Project manager	1	11	450	\$ 200.00
Supervisors	5	11	450	\$ 142.83
QA	5	11	450	\$ 103.90
Human Resources Coordinator	0.5	11	450	\$ 95.95
Environmental Lead	0.333333333	11	450	\$ 200.00
Environmental Coordinator	1	11	450	\$ 142.83
Environmental Monitor	2	11	450	\$ 95.95
Project Administration	6	11	450	\$ 95.95
Safety Supervisor	3	11	450	\$ 142.83
Camp Field Medical Staff	5	12	450	\$ 142.83
First Aid Attendant	5	11	450	\$ 142.83
HS&E Manager	0.5	11	450	\$ 142.83
Geotechnical consultant	0	11	450	\$ 175.00
Material Manager c/w truck	2	11	450	\$ 128.26
ROW Clearing Coordinator	8	11	450	\$ 142.83
Mechanic	3	11	450	\$ 111.85
Pick up Trucks For Above	41 333333333	11	450	\$ 24.36

Facilities:

	Units	Quantity	Months	Mon	thly Rate
Office Trailer	each	6	20	\$	1,800.00
Storage Vans	each	15	20	\$	350.00
Washrooms	each	8	20	\$	150.00
Yard and Waste Handling	month	3	20	\$	2,500.00
Fuel Storage	Lump Sum	3	20	\$	2,500.00

#	Crew	Hrs / Week		Total Hours	Hourly Rate	Crews
π	1 Hauling	1113 / WEEK	273	281	\$ 195.16	Ciews
	2 Site Preparation	1		42	7	
	3 Blocking Crew	1	34	42		
	4 Lattice Assembly	1	628	636		
	6 Tower Topping	1	31	39	\$ 950.45	
	7 Haul Travellers&Glass	1	36	44	\$ 403.50	
	8 Hang Travellers	1	26	34	\$ 840.02	
	9 Wire Hauling	1	125	133		
	10 Pull Site Prep	1	50	58	\$ 804.62	
	11 Stringing	1	56	64		
	12 Tie -in	1	47	55	7	
	13 Deadends	1	25	33		
	15 OPGW Install	1	19	27	\$ 1,458.94	
	16 Rider Pole Crew	1	8	16	\$ 718.80	
	17 Foundation Haul	1	58	66	\$ 195.16	
	18 Foundation Survey (\$250/h)	1	3	11	\$ 223.70	
	19 Found Excavation	1	130	138	\$ 601.52	
	20 Grillage Installation	1	55	63	\$ 627.54	
	21 Backfill and Compact	1	82	90	\$ 432.84	
	22 Site Cleanup	1	48	56		
	23 Grout Crew	1	83	91	\$ 260.13	
	24 Concrete Foundations	1	116	124	\$ 614.08	
	25 Ground Testing	1	11	19	\$ 208.34	
	28 Camp Site Preparation	1	20	28	\$ 465.55	
	29 Supervisory	1	24	32	\$ 142.83	
	35 Anchor Crew	1	7	15	\$ 419.75	
	36 Rock Foundations	1	101	109	\$ 516.53	
	39 Guy Install	1	35	43	\$ 795.31	
	40 Y- Tower Erection	1	45	53	\$ 899.47	
	41 Tower Plumb	1	29	37	\$ 711.72	
	42 OPGW Splice	1	104	112	\$ 174.87	
	43 Counterpoise Instal	1	48	56	\$ 424.98	
	45 Camp Setup	1	15	23	\$ 1,293.35	
	46 Camp Haul	1	29	37	\$ 107.16	
	47 Electrode Slack String	1	34	42	\$ 2,578.79	
	48 Wood Assembly	1	9	17	\$ 531.60	
	49 Wood Erection	1	6	14	\$ 646.71	
	50 Wood Slack Stringing	1	2	10	\$ 1,438.68	

Work activities:	Unit	Un	it cost	Quantity
Road Flagging alon <mark>g Active Haul</mark> Roads - 2x flaggers	Days	\$	814.00	60
Aircraft - Cessna Conquest	Hours	\$	1,300.00	771
Executive Air Fare - Commercial 225 Tickets at \$800.00 / trip	Each	\$	800.00	225
Air Fare - Commercial 2792 Tickets at \$800.00 / trip	Each	\$	800.00	2792
Bid Preparation	LS	\$	80,000.00	5
Temporary Shop Facilities	Each	\$	60,000.00	3
Employee Drug Testing	test	\$	115.00	563
Buttdowns materials	Ea	\$	1,600.00	80
Grounding Material for slug sites	Ea	\$	20,000.00	2
Special grips for 3633 kcmil	Ea	\$	1,600.00	50
Special hoist (12t)	Ea	\$	2,400.00	20
Buttdown and grounding engineering costs	Hr	\$	175.00	120
Pullthrues engineering costs	Ea	\$	175.00	120
Engineered lifts	Ea	\$	175.00	200
Mappin cost (work planning, drawings)	Ea	\$	175.00	30
Implo storage and maintenance	Month	\$	5,000.00	18
Helicopter support Small	Hr	\$	1,905.50	1350
Helicopter support Medium	Hr	\$	3,071.98	2400
Property rental	Month	\$	3,500.00	18
Doctor support	Month	\$	5,000.00	18
S1 Additional culverts based on 2 culverts per/km over 1104km of all season road including reclamation (1104 -	ls	\$	951,900.00	1
S2 Additional culverts based on 2 culverts per/km over 1104km of all season road including reclamation (1104 -	ls	\$	504,340.00	1
S1 Additional culverts based on 2 culverts per/km over 1104km of all season road including reclamation (1104	ls	\$	1,214,100.00	1
S2 Additional culverts based on 2 culverts per/km over 1104km of all season road including reclamation (1104	ls	\$	643,260.00	1
Winter road maintenance/snowplowing	ea	\$	259,200.00	2
Environmental Response Material (per section)	LS	\$	50,000.00	2
Misc. Material (galvacon, pins, stakes, flagging, hoarding material)	LS	\$	40,000.00	2
New Blocking	LS	\$	100,000.00	5

Tools:

	Unit	Unit cost	Quantity
Traffic Accommdation Signage	Lump Sum	\$ 37,000.00	2
IT System	Lump Sum	\$ 30,000.00	1
Videoconference System	Lump Sum	\$ 35,000.00	2
Computer & Office Equipment	<mark>ea</mark>	\$ 3,000.00	15
Operate Cell Phone	unit-month	\$ 400.00	50

Other:

Engineering Support	Lump Sum	\$ 150,000.00	1



LOWER CHURCHILL PROJECT CT0327 CONSTRUCTION OF 350kV HVdc TRANSMISSION LINE: SEGMENT 3

Valard Construction LP Rev 00, 01-Nov-2013

SCHEDULE OF PRICE BREAKDOWN

					/4\				0 1 · · · · · · · · · · · · · · ·
S1-A	Description General Works (S1-Ax)	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
31-4	Mobilization and Demobilization	<u> </u>	<u> </u>	<u> </u>		1		1	
S1-A1	Initial Mobilization	LS	1	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000.00	\$ 1,000,000.00
S1-A2	Final Demobilization Accommodation Camp	LS	1	\$ -	\$ -	\$ -	\$ -		\$ -
S1-A3	Accommodation Camp Installation	LS	1	\$ 238,379.04	\$ 10,875,512.59	\$ 4,493,742.02	\$ 14,179,597.12	\$ 29,548,851.73	\$ 29,548,851.73
S1-A4	Boarding and Lodging for Company/Engineer with 3 meals per day	person-day	12,000	\$ 26,400.00	\$ 1,086,720.00	\$ 463,680.00	\$ 1,449,720.00	\$ 250.01	\$ 3,000,120.00
S1-A5	Meals for Company/Engineer visitors	meal	1,000	\$ 366.74	\$ 15,100.00	\$ 6,440.00	\$ 20,140.00	\$ 41.68	\$ 41,680.00
	Performance Security			1 4		I A	<u> </u>	I A	^
S1-A6 S1-A7	Parent Guarantee Article 7.4 Letter Of Credit Article 7.6	LS LS	1	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-A8	Performance Bonding Article 7.1	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-A9	Labour and Materials Bonding Article 7.2	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Sub-total (S1-Ax)	: General Works	265,145.78	\$ 11,977,332.59	\$ 4,963,862.02	\$ 15,649,457.12	\$ 30,549,143.42	\$ 33,590,651.73
S1-B	Right-of-Way Clearing - Direct Costs (S1-Bx) Right-Of-Way Clearing	<u> </u>	I	I .		<u> </u>			
S1-B1	ROW Clearing	На	1,292	\$ 156,885.71	\$ 12,629,300.00	\$ -	\$ 12,629,300.00	\$ 19,550.00	\$ 25,258,600.00
S1-B2	Removal of selected danger trees	EA	500	\$ 652.17	\$ 52,500.00	\$ -	\$ 52,500.00	\$ 210.00	\$ 105,000.00
S1-B3	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2 $$	LM	606	\$ 962.09	\$ 25,815.60	\$ 154,893.60	\$ 77,446.80	\$ 426.00	\$ 258,156.00
S1-B4	Supply and Installation of Bridge - 3 m	EA	71	\$ 8,652.30	\$ 232,170.00	\$ 1,393,020.00	\$ 696,510.00	\$ 32,700.00	\$ 2,321,700.00
S1-B5 S1-B6	Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 5 m	EA EA	9	\$ - \$ 1,827.95	\$ 49,050.00	\$ 294,300.00	\$ - \$ 147,150.00	\$ 54,500.00	\$ -
S1-B7	Supply and Installation of Bridge - 6 m	EA	1	\$ 243.73	\$ 6,540.00	\$ 39,240.00	\$ 19,620.00	\$ 65,400.00	\$ 65,400.00
S1-B8	Supply and Installation of Bridge - 7 m	EA	2	\$ 568.70	\$ 15,260.00	\$ 91,560.00	\$ 45,780.00	\$ 76,300.00	\$ 152,600.00
S1-B9 S1-B10	Supply and Installation of Bridge - 8 m Supply and Installation of Bridge - 10 m	EA EA	3	\$ 324.97 \$ 1,218.63	\$ 8,720.00 \$ 32,700.00	\$ 52,320.00 \$ 196,200.00	\$ 26,160.00 \$ 98,100.00	\$ 87,200.00 \$ 109,000.00	\$ 87,200.00 \$ 327,000.00
S1-B10	Supply and Installation of Bridge - 10 III	EA	1	\$ 528.07	\$ 14,170.00		\$ 42,510.00	\$ 141,700.00	\$ 141,700.00
S1-B12	Supply and Installation of Bridge - 14 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B13 S1-B14	Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 16 m	EA EA	2	\$ 1,218.63 \$ 649.94	\$ 32,700.00 \$ 17,440.00	\$ 196,200.00 \$ 104,640.00	\$ 98,100.00 \$ 52,320.00	\$ 163,500.00 \$ 174,400.00	\$ 327,000.00 \$ 174,400.00
S1-B15	Supply and Installation of Bridge - 25 m	EA	1	\$ 1,015.53	\$ 27,250.00	\$ 163,500.00	\$ 81,750.00	\$ 272,500.00	\$ 272,500.00
S1-B16	Supply and Installation of Bridge - 35 m	EA	1	\$ 1,421.74	\$ 38,150.00	\$ 228,900.00	\$ 114,450.00	\$ 381,500.00	\$ 381,500.00
S1-B17 S1-B18	Supply and Installation of Bridge - 50 m Supply and Installation of Bridge - 60 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -
S1-B18	Supply and Installation of Bridge - 65 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B20	Installation of Corduroy Road	LM	3,528	\$ 1,833.45	\$ 49,180.32		\$ 147,576.24		\$ 491,944.32
S1-B21 S1-B22	Installation of Access Road - Access Class 3 Installation of Access Road - Access Trail	KM KM	173 11	\$ 52,028.94 \$ 3,308.20	\$ 1,396,110.00 \$ 88,770.00	\$ 8,376,660.00 \$ 532,620.00	\$ 4,188,330.00 \$ 266,310.00	\$ 80,700.00 \$ 80,700.00	\$ 13,961,100.00 \$ 887,700.00
S1-B23	Installation of Access Road - Bypass Trail	KM	18	\$ 5,413.42	\$ 145,260.00	\$ 871,560.00	\$ 435,780.00	\$ 80,700.00	\$ 1,452,600.00
S1-B24	Installation of Access Road - Ice Bridge	LM	64	\$ 1,717. 27	\$ 46,080.00			· · · · · · · · · · · · · · · · · · ·	\$ 460,800.00
	Sub-total (S1-Bx) : Rig	•		240,471.44	\$ 14,907,165.92	\$ 13,352,3 <mark>01.36</mark>	\$ 19,357,933.04	\$ 1,828,325.44	\$ 47,617,400.32
S1-B	Right-of-Way Clearing for Wood Pole Electronic Right-Of-Way Clearing	ode Line- Direct C	osts (S1-Bx)						
S1-B25	ROW Clearing	На	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B26	Removal of selected danger trees	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B27	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	LM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B28	Supply and Installation of Bridge - 3 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B29	Supply and Installation of Bridge - 4 m	EA	0	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-B30 S1-B31	Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 6 m	EA EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B32	Supply and Installation of Bridge - 7 m	EA	0	\$ -	·	\$ -	\$ -	· -	¢ _
S1-B33					\$ -	•	•	Ÿ	7
	Supply and Installation of Bridge - 8 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B34 S1-B35	Supply and Installation of Bridge - 10 m	EA EA EA			•	•	•	\$ - \$ -	\$ - \$ -
S1-B34		EA EA EA	0	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -
S1-B34 S1-B35 S1-B36 S1-B37	Supply and Installation of Bridge - 10 m Supply and Installation of Bridge - 13 m Supply and Installation of Bridge - 14 m Supply and Installation of Bridge - 15 m	EA EA EA	0 0 0 0	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$ -	\$ - \$ - \$ - \$ -
S1-B34 S1-B35 S1-B36	Supply and Installation of Bridge - 10 m Supply and Installation of Bridge - 13 m Supply and Installation of Bridge - 14 m	EA EA EA	0 0 0	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -
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TRANSMISSION LINE: Construction Front 2 SEGMENT 3 Provided under NDA



								Vara		
Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Su	btotal Price (\$)
S1-C17	Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types D1.	EA	32	\$ 3,483.41	\$ 418,333.12	\$ 9,702.40	\$ 463,285.12	\$ 27,853.77	\$	891,320.64
S1-C18	Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types D2.	EA	20	\$ 2,321.87	\$ 280,512.60	\$ 6,639.80	\$ 308,620.80	ļ .	\$	595,773.20
S1-C19	Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types E1. Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per	EA	20	\$ 2,475.91		\$ 7,346.40	\$ 329,428.60		\$	632,754.20
S1-C20	technical specification for Tower Types C1, or D2, or E1. Downward, uplift, and lateral load testing per leg for Types C1-3, or	EA	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
S1-C21	D2-3, or E1-3 as per technical specification for Tower Types C1, or D2, or E1.	EA	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
	Rock Foundations Assembly and Installation of Foundation Type A1-2 as per Dwg 505573								F	
S1-C22 S1-C23	4622-42DD-0074 for Tower Type A1 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573	EA	109 20	\$ 9,137.08 \$ 1,975.34	· ,				\$	2,318,014.71
S1-C23	4622-42DD-0074 for Tower Type A2 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573	EA EA	10	\$ 1,975.34 \$ 838.26					\$	504,640.80
\$1-C25	4622-42DD-0074 for Tower Type A3 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573		40	\$ 3,966.67					\$	1,013,982.80
S1-C26	4622-42DD-0074 for Tower Type A4 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573		3	\$ 297.50					\$	76,048.71
S1-C27	4622-42DD-0074 for Tower Type B1 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573	EA	100	\$ 15,086.56					\$	3,741,584.00
S1-C28	4622-42DD-0026 for Tower Type B2 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573	EA	9	\$ 552.43	\$ 59,695.38	\$ 8,226.99	\$ 73,128.78	\$ 15,672.35	Ś	141,051.15
51 020	4622-42DD-0058 for Tower Type A1 (Weak Surface Rock)			ÿ 33 <u>2</u> .43	Ţ 33,033.30	ÿ 0,220.33	73,120.70	Ţ 13,072.33	Ě	
S1-C29	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573 4622-42DD-0058 for Tower Type A2 (Weak Surface Rock)	EA	2	\$ 132.45	\$ 14,116.42	\$ 3,050.22	\$ 17,440.78	\$ 17,303.71	\$	34,607.42
S1-C30	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573 4622-42DD-0058 for Tower Type A3 (Weak Surface Rock)	EA	1	\$ 63.95	\$ 6,855.20	\$ 1,244.21	\$ 8,441.01	\$ 16,540.42	\$	16,540.42
	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573						.	4 47.000.74		
S1-C31	4622-42DD-0058 for Tower Type A4 (Weak Surface Rock)	EA	4	\$ 264.90	\$ 28,232.84	\$ 6,100.44	\$ 34,881.56	\$ 17,303.71	Ş	69,214.84
S1-C32	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type B1 (Weak Surface Rock)	EA	1	\$ 67.00	\$ 7,124.46	\$ 1,625.09	\$ 8,815.04	\$ 17,564.59	\$	17,564.59
S1-C33	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573	EA	81	\$ 4,487.70	\$ 479,046.15	\$ 74,042.91	\$ 593,487.00	\$ 14,155.26	\$	1,146,576.06
	4622-42DD-0058 for Tower Type A1 (Sound Surface Rock)			7 7,5		7	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 2.7,200.20	Ė	
S1-C34	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573 4622-42DD-0058 for Tower Type A2 (Sound Surface Rock)	EA	16	\$ 963.98	\$ 101,432.64	\$ 24,401.76	\$ 126,751.36	\$ 15,786.61	\$	252,585.76
S1-C35	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573 4622-42DD-0058 for Tower Type A3 (Sound Surface Rock)	EA	7	\$ 405.83	\$ 42,955.71	\$ 8,709.47	\$ 53,498.06	\$ 15,023.32	\$	105,163.24
64.606	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573		24	4 007 70	Å 400 F2F 74	47 270 44	A 245 500 76	Å 45.706.64		400 204 04
S1-C36	4622-42DD-0058 for Tower Type A4 (Sound Surface Rock)	EA	31	\$ 1,867.72	\$ 196,525.74	\$ 47,278.41	\$ 245,580.76	\$ 15,786.61	\$	489,384.91
S1-C37	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573 4622-42DD-0058 for Tower Type B1 (Sound Surface Rock)	EA	3	\$ 183.06	\$ 19,217.34	\$ 4,875.27	\$ 24,049.86	\$ 16,047.49	\$	48,142.47
S1-C38	Assembly and Installation of Foundation Type B2-2 as per Dwg 505573 4622-42DD-0026 for Tower Type B2 (surface rock)	EA	88	\$ 13,178.92	\$ 1,372,455.04	\$ 147,476.56	\$ 1,751,913.68	\$ 37,180.06	\$	3,271,845.28
S1-C39	Assembly and Installation of Foundation Type C1-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type C1	EA	32	\$ 4,600.33	\$ 475,956.16	\$ 53,627.84	\$ 611,414.08	\$ 35,656.19	\$	1,140,998.08
S1-C40	Assembly and Installation of Foundation Type C2-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type C2	EA	48	\$ 7,256.40	\$ 753,867.84	\$ 80,441.76	\$ 964,820.64	\$ 37,481.88	\$	1,799,130.24
S1-C41	Assembly and Installation of Foundation Type D1-2 as per Dwg 505573 4622-42DD-0026 for Tower Type D1	EA	36	\$ 5,287.41	\$ 544,122.72	\$ 60,331.32	\$ 703,072.08	\$ 36,320.17	\$	1,307,526.12
S1-C42	Assembly and Installation of Foundation Type D2-2 as per Dwg 505573 4622-42DD-0026 for Tower Type D2	EA	20	\$ 3,057.45	\$ 316,739.40	\$ 33,517.40	\$ 406,624.20	\$ 37,844.05	\$	756,881.00
S1-C43	Assembly and Installation of Foundation Type E1-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type E1 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573	EA	16	\$ 2,372.60	\$ 243,584.16	\$ 26,813.92	\$ 315,553.60	\$ 36,621.98	\$	585,951.68
S1-C44	Assembly and Installation of Foundation Type C1 (surface rock) Assembly and Installation of Foundation Type C2-2 as per Dwg 505573.	EA	24	\$ 3,450.25					\$	855,748.56
S1-C45	4622-42DD-0026 for Tower Type C2 (surface rock) Assembly and Installation of Foundation Type D1-2 as per Dwg 505573	EA	40	\$ 6,047.00				, ,	\$	1,499,275.20
S1-C46 S1-C47	4622-42DD-0026 for Tower Type D1 (surface rock) Assembly and Installation of Foundation Type D2-2 as per Dwg 505573	EA EA	28	\$ 4,112.43 \$ 3,057.45					\$	1,016,964.76 756,881.00
S1-C47	4622-42DD-0026 for Tower Type D2 (surface rock) Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-	EA	20	\$ 2,965.75					\$	732,439.60
S1-C49	4622-42DD-0026 for Tower Type E1 (surface rock) Installation and Testing of 25M Mechanical Rock Anchor as per design	LM	9,173	\$ 10,718.21					\$	2,527,803.61
S1-C50	drawings and technical specification Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical specification	LM	276	\$ 336.64					\$	81,243.36
S1-C51	Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technical specification	LM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
S1-C52	Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technical specification	LM	24,108	\$ 35,171.05	\$ 3,083,654.28	\$ 998,553.36	\$ 4,502,892.24	\$ 356.11	\$	8,585,099.88
S1-C53	Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technical specification	LM	145	\$ 234.51	\$ 20,489.95	\$ 8,444.80	\$ 29,959.90	\$ 406.17	\$	58,894.65
S1-C54	Installation and Testing of 64M Mechanical Rock Anchor as per design drawings and technical specification	LM	9	\$ 15.62	\$ 1,353.33	\$ 616.32	\$ 1,989.27	\$ 439.88	\$	3,958.92
	H-Pile Foundations Design, Assembly and Installation of Foundation Type A1-3 as per Dwg								Г	
S1-C55	505573-4622-42DD-0037 for Tower Type A1 including supply and installation of steep cap.	EA	3	\$ 585.00	\$ 48,102.45	\$ 42,254.91	\$ 51,848.04	\$ 47,401.80	\$	142,205.40
S1-C56	Design, Assembly and Installation of Foundation Type A2-3 as per Dwg 505573-4622-42DD-0037 for Tower Type A2 including supply and	EA	1	\$ 195.00	\$ 16,034.15	\$ 14,084.97	\$ 17,282.68	\$ 47,401.80	\$	47,401.80
S1-C57	installation of steep cap. Design, Assembly and Installation of Foundation Type A3-3 as per Dwg 505573-4622-42DD-0037 for Tower Type A3 including supply and	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	ć	
31-037	installation of steep cap. Design, Assembly and Installation of Foundation Type A4-3 as per Dwg	EA	0	-	-	-	-	÷ -	٠,	
S1-C58	505573-4622-42DD-0037 for Tower Type A4 including supply and installation of steep cap.	EA	1	\$ 195.00	\$ 16,034.15	\$ 14,084.97	\$ 17,282.68	\$ 47,401.80	\$	47,401.80
S1-C59	Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42DD-0037 for Tower Type B1 including supply and	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
	installation of steep cap. Design, Assembly and Installation of Foundation Type B2-3 as per Dwg								\vdash	
S1-C60	505573-4622-42DD-0046 for Tower Type B2 including supply and installation of steep cap.	EA	4	\$ 4,024.00	\$ 287,272.52	\$ 263,639.80	\$ 311,496.56	\$ 215,602.22	\$	862,408.88
S1-C61	Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DD-0046 for Tower Type C1 including supply and installation of steel cap.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
S1-C62	Installation of steel cap. Design, Assembly and Installation of Foundation Type C2-3 as per Dwg 505573-4622-42DD-0046 for Tower Type C2 including supply and	EA	4	\$ 4,024.00	\$ 287,272.52	\$ 263,639.80	\$ 311,496.56	\$ 215,602.22	¢	862,408.88
31 602	installation of steel cap. Design, Assembly and Installation of Foundation Type D1-3 per Dwg	Ln.	<u> </u>	7,024.00	201,212.32	203,033.00	311,430.30	213,002.22	Ě	
S1-C63	505573-4622-42DD-0046 for Tower Type D1 including supply and installation of steel cap.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
S1-C64	Design, Assembly and Installation of Foundation Type D2-3 as per Dwg 505573-4622-42DD-0046 for Tower Type D2 including supply and	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
	installation of steel cap. Design, Assembly and Installation of Foundation Type E1-3 as per Dwg								\vdash	
S1-C65	505573-4622-42DD-0046 for Tower Type E1 including supply and installation of steel cap.	EA	4	\$ 4,024.00	\$ 287,272.52	\$ 263,639.80	\$ 311,496.56	\$ 215,602.22	\$	862,408.88
S1-C66	Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings and technical specifications (length in bog not considered)	LM	720	\$ 2,151.54	\$ 103,996.80	\$ 37,742.40	\$ 195,638.40	\$ 468.58	\$	337,377.60
S1-C67	Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT	LM	2,040	\$ 2,488.80	\$ 254,551.20	\$ 669,344.40	\$ 260,712.00	\$ 580.69	\$	1,184,607.60
	Bog and Poor Soil Supply and Installation of Cribs for excavation protection of tower								Г	
S1-C68	types A1, A2, A3, A4, B1, B2, C1, C2, D1, D2, E1 for any type of Foundation as per Dwg 505573-4622-42DD-0069 and 505573-4622-	M2	6,700	\$ 15,879.00	\$ 1,795,667.00	\$ 1,704,279.00	\$ 2,151,973.00	\$ 843.57	\$	5,651,919.00
	42DD-0071 Earthwork			I A -	A		A		_	
S1-C69 S1-C70	Transportation of native backfill Supply and transportation of approved fill from an alternate	M3 * KM	1,000 14,000	\$ 222.22 \$ 5,930.56			\$ 28,900.00 \$ 606,200.00	1		65,310.00 1,993,880.00
S1-C71	source/processed material/road gravel Rock blasting/preparation	M3	1,000	\$ 6,000.00					Ľ	1,523,890.00
	Sub total ISA Co.): Tower Foundati	ion Construction	306,667.58	\$ 26,641,862.97	\$ 7,993,397.15	\$ 35,870,773.42	\$ 1,837,008.14	\$	72,675,680.58
	Sup-total (51-CX) <mark>: Tower Foundat</mark>	ion construction			TRÁN	SMISSION LINE: C	onstruction Front 2 St		

Valard Construction LP 2 of 6 Provided under NDA 10/01/2014



March Marc										Vara	
No.	Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
Manual Control of Co	S1-D	Tower Assembly and Erection (S1-Dx)									
Company										1.	I .
March Marc	S1-D1	505573-4622-43DD-0042	EA	0		·	\$	•	•	\$ -	
Column	S1-D2	dwg. 505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
Column	S1-D3	dwg. 505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
Column	S1-D4	dwg. 505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
Column	S1-D5		EA	67	\$ 21,105.11	\$ 1,489,539.9	8 \$	- \$	2,910,687.70	\$ 65,675.04	\$ 4,400,227.68
March Marc	S1-D6		EA	26	\$ 8,311.92	\$ 586,025.4	4 \$	- \$	1,146,397.72	\$ 66,631.66	\$ 1,732,423.16
March Marc	S1-D7	Assembly and Erection of Suspension Tower Type "A1 + 9" as per	EA	27	\$ 8,730.94	\$ 615,079.9	8 \$	- \$	1,204,242.93	\$ 67,382.33	\$ 1,819,322.91
Section Sect	S1-D8	Assembly and Erection of Suspension Tower Type "A1 + 10.5" as per	EA	28	\$ 9,252.10	\$ 770,827.6	8 \$	- \$	1,156,241.24	\$ 68,823.89	\$ 1,927,068.92
Mathematical Content	S1-D9	Assembly and Erection of Suspension Tower Type "A1 + 12" as per	EA	33	\$ 11,014.91	\$ 917,507.2	5 \$	- \$	1,376,261.04	\$ 69,508.13	\$ 2,293,768.29
Column	S1-D10	Assembly and Erection of Suspension Tower Type "A1 + 13.5" as per	EA	25	\$ 8.461.83	\$ 594.289.2	5 \$	- Ś	1.167.329.50	\$ 70.464.75	\$ 1.761.618.75
March Marc				1		•					
Column							-				
March Marc											
Section Sect	S1-D13	dwg. 505573-4622-43DD-0042	EA	42	\$ 14,/23.12	\$ 1,031,680.0	2 \$	- \$	2,031,353.10	\$ 72,929.36	\$ 3,063,033.12
A	S1-D14	Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg.	EA	0	ś -	\$ -	Ś	- Ś	_	Ś -	\$ -
Second Content of the Content of t				1		·				'	
1965 1965	-					-				+	
Column C		dwg. 505573-4622-43DD-0044				•			-		
March Marc		dwg. 505573-4622-43DD-0044				•	•		-	 	
No. No. No.		dwg. 505573-4622-43DD-0044						$\overline{}$			
Second	S1-D19	dwg. 505573-4622-43DD-0044	EA	6	\$ 2,844.80	\$ 203,403.1	8 \$	- \$	392,171.16	\$ 99,262.39	\$ 595,574.34
Vision 1975	S1-D20	dwg. 505573-4622-43DD-0044	EA	11	\$ 5,311.09	\$ 379,177.5	9 \$	- \$	732,219.73	\$ 101,036.12	\$ 1,111,397.32
Column C	S1-D21	dwg. 505573-4622-43DD-0044	EA	5	\$ 2,474.36	\$ 176,303.9	5 \$	- \$	341,166.45	\$ 103,494.08	\$ 517,470.40
Section Sect	S1-D22		EA	12	\$ 5,954.08	\$ 424,154.5	2 \$	- \$	820,963.20	\$ 103,759.81	\$ 1,245,117.72
Column C	S1-D23	Assembly and Erection of Suspension Tower Type "A2 + 13.5" as per	EA	4	\$ 2,034.31	\$ 144,639.2	0 \$	- \$	280,524.16	\$ 106,290.84	\$ 425,163.36
Column C	S1-D24	Assembly and Erection of Suspension Tower Type "A2 + 15" as per	EA	4	\$ 2,119.92	\$ 150,998.5	6 \$	- \$	29 2,187.60	\$ 110,796.54	\$ 443,186.16
Process	S1-D25	Assembly and Erection of Suspension Tower Type "A2 + 16.5" as per	EA	6	\$ 3,232.03	\$ 229,918.7	4 \$	- \$	445,502.76	\$ 112,570.25	\$ 675,421.50
Committee Comm	S1-D26	Assembly and Erection of Suspension Tower Type "A2 + 18" as per	EA	1	\$ 547.36	\$ 38,889.9	5 \$	- \$	75,454.03	\$ 114,343.98	\$ 114,343.98
Commonwhited functions of importants from the Park 2017 Commonwhited functions of important to the Park 2017 Common	S1-D27	Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per	FA	2				- s			
March Marc					7 2,20	7 70,000		· ·		Ψ 113,233.3 .	φ 250,507.00
1.000 1.00	S1-D28		EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
According on the content and present the Park NELLY and Section Section	S1-D29	Assembly and Erection of Suspension Tower Type "A3 + 1.5" as per	EA	1	\$ 340.49	\$ 24,711.1	6 \$	- \$	46,859.11	\$ 71,570.27	\$ 71,570.27
Second Section of Experiment Processing Section (Section 1) Section	S1-D30	Assembly and Erection of Suspension Tower Type "A3 + 3" as per	EA	2	\$ 689.96	\$ 50,011.6	8 \$	- \$	94,962.36	\$ 72,487.02	\$ 144,974.04
Section Continue of Continue Contin	S1-D31	Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per	FA	2					-		
Section Company of the Company o				2							
Second Continue and Processing March 19 (Fig. 1) Continue and				3					-		
10.000 10.0000 10.00000 10.000000 10.000000 10.000000 10.0000000 10.0000000 10.0000000 10.0000000 10.0000000000							-		-		
1.00 1.00				2			-		-		
1.00		dwg. 505573-4622-43DD-0050		3					-		
According to the control of the co	S1-D36	dwg. 505573-4622-43DD-0050	EA	2	\$ 749.40	\$ 53,910.9	4 \$	- \$	103,193.48	\$ 78,552.21	\$ 157,104.42
	S1-D37	dwg. 505573-4622-43DD-0050	EA	2	\$ 761.71	\$ 54,718.1	4 \$	- \$	104,897.40	\$ 79,807.77	\$ 159,615.54
See 2017 442 410 035	S1-D38	dwg. 505573-4622-43DD-0050	EA	1	\$ 387.01	\$ 27,762.6	6 \$	- \$	53,300.66	\$ 81,063.32	\$ 81,063.32
Author Section Secti	S1-D39		EA	3	\$ 1,172.35	\$ 84,031.1	1 \$	- \$	161,470.65	\$ 81,833.92	\$ 245,501.76
No.				1	· ·					1.	I .
1906 1906	S1-D40	505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
March Marc	S1-D41	dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
Sequence Sequence	S1-D42	dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
Section Sect	S1-D43	dwg. 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
Accommission of Superminor Flower Plane (A. 1.7.2 * agreer	S1-D44		EA	25	\$ 11,406.92	\$ 811,397.7	5 \$	- \$	1,572,632.00	\$ 95,361.19	\$ 2,384,029.75
Secondly and intention of Suppension Tower Type "A+ 19" as per	S1-D45	Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per	EA	12	\$ 5,624.16	\$ 399,234.0	0 \$	- \$	775,472.76	\$ 97,892.23	\$ 1,174,706.76
Somethy and Ferencin of Suspension Tower Type "A4 + 105" is per EA 18 \$ 8,808.92 \$ 623,297.16 \$. \$ 1,214,813.70 \$ 102,117.27 \$ 1,838,110.81	S1-D46	Assembly and Erection of Suspension Tower Type "A4 + 9" as per	EA	21	\$ 10,024.81	\$ 710,632.6	5 \$	- \$	1,382,352.09	\$ 99,665.94	\$ 2,092,984.74
Section Sect	S1-D47	Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per	EA	18	\$ 8,808.92	\$ 623,297.1	.6 \$	- \$	1,214,813.70	\$ 102,117.27	\$ 1,838,110.86
No. 90573-4622-3100-005		Assembly and Erection of Suspension Tower Type "A4 + 12" as per									\$ 1,023,896.30
No. Substitute		Assembly and Erection of Suspension Tower Type "A4 + 13.5" as per							-		
1.00		Assembly and Erection of Suspension Tower Type "A4 + 15" as per					-		· · · · · · · · · · · · · · · · · · ·		
Substitution Subs						· · · · ·	-	<u> </u>			, ,,,,,,,
Second S		dwg. 505573-4622-43DD-0056								<u> </u>	
Assembly and Erection of Suspension Tower Type "B1" EA		dwg. 505573-4622-43DD-0056					-			, ,	· · · · · ·
Si-D55 Assembly and Erection of Suspension Tower Type "B1 + 0" as per dwg. EA	S1-D53	dwg. 505573-4622-43DD-0056	EA	6	\$ 3,225.39	\$ 226,728.1	8 \$	- \$	444,966.54	\$ 111,949.12	\$ 671,694.72
\$1-055 \$1-	\$1_DE4	Assembly and Erection of Suspension Tower Type "B1 + 0" as per dwg.	FΛ	n	4	\$	¢			ς	¢
Si-D55 Ages mbly and Frection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D0-0002 EA 0 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$						•	-		-	+	
Si-D55 dwg. 505573-4622-43DD-0002		dwg. 505573-4622-43DD-0002		1					-	+	
Si-Display Si-		dwg. 505573-4622-43DD-0002				•	-		-		
St-D55 dwg. 505573-4622-43DD-0002	S1-D57	dwg. 505573-4622-43DD-0002	EA	0		\$ -	\$	- \$	-	+	
S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per dwg. 505573-4622-43DD-0002 EA 0 S - S - S - S - S - S - S - S - S - S	S1-D58	dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
S1-D61 dwg. 505573-4622-43DD-0002 S1-D62 Assembly and Frection of Suspension Tower Type "B1 + 10.5" as per dwg. 505573-4622-43DD-0002 S1-D63 Assembly and Frection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43DD-0002 S1-D63 Assembly and Frection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43DD-0002 S1-D63 Assembly and Frection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43DD-0002 S1-D64 Assembly and Frection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002 S1-D65 Assembly and Frection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 15." as per dwg. 505573-4622-43DD-0002 S1-D65 Assembly and Frection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 S1-D66 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 50573-4622-43DD-0002 S1-D67 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 50573-4622-43DD-0002 S1-D68 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 50573-4622-43DD-0002 S1-D69 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 50573-4622-43DD-0002 S1-D69 Assembly and Frection of Suspension Tower Type "B1 + 18" as per dwg. 50573-4622-43DD-0002 S1-D69 Assembly and Fre	S1-D59	dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
S1-D62 dwg. 505573-4622-43DD-0002 S1-D62 dwg. 505573-4622-43DD-0002 S1-D63 dwg. 505573-4622-43DD-0002 S1-D64 dwg. 505573-4622-43DD-0002 S1-D64 dwg. 505573-4622-43DD-0002 S1-D64 dwg. 505573-4622-43DD-0002 S1-D65 dwg. 505573-4622-43DD-0002 S1-D66 dwg. 505573-4622-43DD-0002	S1-D60	dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43DD-0002 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43DD-0002 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002 EA 1 \$ 687.96 \$ 47,227.05 \$ - \$ 94,986.17 \$ 142,213.22 \$	S1-D61	, , , , , , , , , , , , , , , , , , , ,	EA	0	\$ -	\$ -	\$	- \$	-	\$ -	\$ -
S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43DD-0002 S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002 EA 2 \$ 1,400.53 \$ 96,068.46 \$ - \$ 193,380.18 \$ 144,724.32 \$ 289,448.64 \$ \$ 193,380.18 \$ 144,724.32 \$ 289,448.64 \$ \$ 1-20 \$	S1-D62	Assembly and Erection of Suspension Tower Type "B1 + 12" as per	EA	1	\$ 666.69	\$ 45,645.7	5 \$	- \$	92,088.34	\$ 137,734.09	\$ 137,734.09
S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002 EA	S1-D63	Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per	EA	1	\$ 687.96	\$ 47,227.0	5 \$	- \$	94,986.17	\$ 142,213.22	\$ 142,213.22
S1-D66 Assembly and Erection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 EA	S1-D64	Assembly and Erection of Suspension Tower Type "B1 + 15" as per	EA	2	\$ 1,400.53	\$ 96,068.4	6 \$	- \$	193,380.18	\$ 144,724.32	\$ 289,448.64
S1-D66 Assembly and Erection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002 EA 1 \$ 722.17 \$ 49,471.36 \$ - \$ 99,723.79 \$ 149,195.15 \$ 149,195.15	S1-D65	Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per				•	-		-		· · · · · ·
JUNES, 5055/3-462Z-43DU-000Z		Assembly and Erection of Suspension Tower Type "B1 + 18" as per					-		-		
LIVERANCIMATE SECTION AND LINE AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSE	J. D00	dwg. 505573-4622-43DD-0002	En .	<u> </u>	I * '22.1/	y +3,4/1.3			•		

TRANSMISSION LINE: Construction Front 2 SEGMENT 3
Provided under NDA



								Vara	
Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-D67	Assembly and Erection of Suspension Tower Type "B1 + 19.5" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D68	Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43DD-0002	EA	1	\$ 763.73	\$ 52,383.02	\$ -	\$ 105,429.93	\$ 157,812.95	\$ 157,812.95
S1-D69	Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D70	Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-43DD-0002	EA	2	\$ 1,609.94	\$ 110,920.40	\$ -	\$ 222,090.54	\$ 166,505.47	\$ 333,010.94
S1-D71	Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D72	Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43DD-0002	EA	1	\$ 828.21	\$ 56,984.89	\$ -	\$ 114,263.79	\$ 171,248.68	\$ 171,248.68
	Assembly and Erection of Medium Angle Tower Type "B2" Assembly and Erection of Medium Angle Tower Type "B2" Basic Body			I					l
S1-D73	as per dwg. 505573-4622-43DD-0058 Assembly and Erection of +4.5 m body extension for Medium Angle	EA	71	\$ 46,959.40			\$ 6,505,252.17	\$ 142,092.59	\$ 10,088,573.89
S1-D74	Tower Type "B2" as per dwg. 505573-4622-43DD-0058 Assembly and Erection of +10.5 m body extension for Medium Angle	EA	17	\$ 2,926.19		•	\$ 405,707.38	-	
S1-D75	Tower Type "B2" as per dwg. 505573-4622-43DD-0058 Assembly and Erection of +0 m leg extension for Medium Angle Tower	EA	19 40	\$ 5,520.74 \$ 361.98		·	\$ 765,610.32		\$ 1,178,697.49
S1-D76 S1-D77	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +1.5 m leg extension for Medium Angle	EA		-		•	\$ 50,187.20		
S1-D77	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower	EA EA	28	\$ 152.03 \$ 634.43			\$ 21,078.60 \$ 87,961.44		\$ 32,383.20 \$ 135,135.56
S1-D78	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle	EA	32	\$ 845.58		•	\$ 117,237.12	<u> </u>	\$ 133,133.30
S1-D73	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower	EA	52	\$ 1,535.85			\$ 212,941.56		
S1-D81	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle	EA	44	\$ 1,541.89		•	\$ 213,777.96		\$ 328,427.88
S1-D81	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower	EA	76	\$ 3,400.88			\$ 472,225.24		,
	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of Medium Angle Tower Type "C1"			ÿ 3,400.00	ψ 203)203140	<u> </u>	472,223,24	ÿ 3,070.72	ÿ 755,450.72
S1-D83	Assembly and Erection of Medium Angle Tower Type "C1" Basic Body as per dwg. 505573-4622-43DD-0004	EA	21	\$ 15,829.62	\$ 1,230,836.46	\$ -	\$ 2,194,157.70	\$ 163,094.96	\$ 3,424,994.16
S1-D84	Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	EA	1	\$ 151.72	\$ 11,281.45	\$ -	\$ 21,035.55	\$ 32,317.00	\$ 32,317.00
S1-D85	Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	EA	6	\$ 1,694.16	\$ 126,788.04	\$ -	\$ 234,946.20	\$ 60,289.04	\$ 361,734.24
S1-D86	Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D87	Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D88	Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	44	\$ 1,142.38	\$ 84,944.20	\$ -	\$ 158,388.12	\$ 5,530.28	\$ 243,332.32
S1-D89	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	8	\$ 257.76	\$ 19,166.48	\$ -	\$ 35,738.00	\$ 6,863.06	\$ 54,904.48
S1-D90	Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	4	\$ 159.60	\$ 11,867.20	\$ -	\$ 22,127.72	\$ 8,498.73	\$ 33,994.92
S1-D91	Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	8	\$ 373.04	\$ 27,738.40	\$ -	\$ 51,721.36	\$ 9,932.47	\$ 79,459.76
S1-D92	Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	20	\$ 1,136.01	\$ 84,470.00	\$ -	\$ 157,503.80	\$ 12,098.69	\$ 241,973.80
C4 D03	Assembly and Erection of Medium Angle Tower Type "C2" Assembly and Erection of Medium Angle Tower Type "C2" Basic Body	FA	24	22.254.42	A 020 045 02		<u> </u>	440.564.04	¢ 5.054.476.24
S1-D93	as per dwg. 505573-4622-43DD-0012 Assembly and Erection of +4.5 m body extension for Medium Angle	EA	34	\$ 23,251.43 \$ 1,136.97			\$ 3,222,230.32		\$ 5,051,176.34 \$ 242,364.43
S1-D94 S1-D95	Tower Type "C2" as per dwg. 505573-4622-43DD-0012 Assembly and Erection of +10.5 m body extension for Medium Angle	EA EA	7	\$ 1,136.97	\$ 84,746.69		\$ 157,617.74 \$ -	\$ 34,623.49	\$ 242,364.43
S1-D93	Tower Type "C2" as per dwg. 505573-4622-43DD-0012 Assembly and Erection of +0 m leg extension for Medium Angle Tower	EA	16	\$ 262.53	\$ 19,568.48		\$ 36,394.72	\$ 3,497.70	\$ 55,963.20
S1-D90	Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +1.5 m leg extension for Medium Angle	EA	4	\$ 91.89			\$ 12,738.16	<u> </u>	
S1-D98	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +3 m leg extension for Medium Angle Tower	EA	28	\$ 896.13		· _	\$ 124,230.40		
S1-D99	Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle	EA	20	\$ 801.07		·	\$ 111,051.80		\$ 170,761.40
S1-D100	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower	EA	24	\$ 1,226.78			\$ 170,068.56		\$ 261,509.76
S1-D101	Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle	EA	24	\$ 1,434.88		•	\$ 198,916.32		
S1-D102	Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower	EA	20	\$ 1,364.82			\$ 189,204.60		\$ 290,934.60
	Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1"			7 3,00 11.02		*	,,	7 2,,2 10115	7
S1-D103	Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043	EA	24	\$ 20,370.48	\$ 1,579,657.20	\$ -	\$ 2,824,163.04	\$ 183,492.51	\$ 4,403,820.24
S1-D104	Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043	EA	3	\$ 536.71	\$ 39,810.81	\$ -	\$ 74,422.38	\$ 38,077.73	\$ 114,233.19
S1-D105	Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043	EA	3	\$ 1,035.95	\$ 76,842.51	\$ -	\$ 143,649.51	\$ 73,497.34	\$ 220,492.02
S1-D106	Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D107	Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D108	Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA	40	\$ 1,009.25	\$ 74,862.40	\$ -	\$ 139,947.60	\$ 5,370.25	\$ 214,810.00
S1-D109	Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA	16	\$ 549.85	\$ 40,785.76	\$ -	\$ 76,244.80	\$ 7,314.41	\$ 117,030.56
S1-D110	Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA	28	\$ 1,138.29	\$ 84,433.44	\$ -	\$ 157,839.92	\$ 8,652.62	\$ 242,273.36
S1-D111	Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg, 505573-4622-43DD-0043, per leg	EA	12	\$ 581.04	\$ 43,099.08	\$ -	\$ 80,569.44	\$ 10,305.71	\$ 123,668.52
S1-D112	Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of Dead-End Tower Type "D2"	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D113	Assembly and Erection of Dead-End Tower Type "D2" Assembly and Erection of Dead-End Tower Type "D2" Basic Body as	EA	15	\$ 12,541.38	\$ 990,592.20	\$ -	\$ 1,739,498.40	\$ 182,006.04	\$ 2,730,090.60
S1-D114	per dwg. 505573-4622-43DD-0045 Assembly and Erection of +4.5 m body extension for Dead-End Tower	EA	1	\$ 245.15		·	\$ 33,991.80		, , , , , , , , , , , , , , , , , , , ,
S1-D115	Type "D2" as per dwg. 505573-4622-43DD-0045 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045	EA	0	\$ -	\$ -		\$ -	\$	\$
S1-D116	Type "D2" as per dwg, 505573-4622-43DD-0045 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg, 505573-4622-43DD-0045, per leg	EA	16	\$ 461.58	•		\$ 64,001.44	\$ 6,142.38	\$ 98,278.08
S1-D117	Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as ner dwg. 505573-4622-43DD-0045, per leg	EA	20	\$ 769.30			\$ 106,669.20	-	
S1-D118	Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	EA	8	\$ 395.12	\$ 29,341.20	\$ -		 	
S1-D119	Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	EA	4	\$ 230.96	\$ 17,151.04	\$ -	\$ 32,024.60	\$ 12,293.91	\$ 49,175.64
S1-D120	Type "D2" as per dwg. 505373-4622-43DD-0045, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	EA	8	\$ 609.73	\$ 45,277.52	\$ -	\$ 84,542.64	\$ 16,227.52	\$ 129,820.16
S1-D121	Type "02" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "02" as per dwg. 505573-4622-43DD-0045, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D122	Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	EA	4	\$ 357.21	\$ 26,525.68	\$ -	\$ 49,529.00	\$ 19,013.67	\$ 76,054.68
	Assembly and Erection of Dead-End Tower Type "E1" Assembly and Erection of Dead-End Tower Type "E1" Assembly and Erection of Dead-End Tower Type "E1" Basic Body as			T .				Ι.	T .
S1-D123	Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-4622-43DD-0007 Assembly and Erection of +4.5 m body extension for Dead-End Tower	EA	15	\$ 15,050.74			\$ 2,087,443.95		
S1-D124	Assembly and Erection of +4.5 m body extension for Dead-End Lower Type "E1" as per dwg. 505573-4622-43DD-0007 Assembly and Erection of +10.5 m body extension for Dead-End Tower	EA	4	\$ 982.79	· , ,		\$ 136,336.28	 	\$ 208,637.36
S1-D125	Assembly and Erection of ±10.5 m body extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0007 Assembly and Erection of ±0 m leg extension for Dead-End Tower	EA	0	\$ -	•	•	•	\$ -	\$ -
S1-D126	Assembly and Erection of +0 m leg extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower	EA	8	\$ 239.68			\$ 33,249.76		
S1-D127	Assembly and Erection of +3 m leg extension for Dead-End Tower Assembly and Erection of +3 m leg extension for Dead-End Tower	EA	4	\$ 159.79		•	\$ 22,166.52		
S1-D128	Assembly and Erection of +4.5 m leg extension for Dead-End Tower Assembly and Erection of +4.5 m leg extension for Dead-End Tower	EA	0	\$ -	•		-	\$ -	\$ -
S1-D129	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower	EA	20	\$ 1,277.87		•	\$ 177,270.40	-	
S1-D130	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower	EA	16	\$ 1,256.31			-		\$ 266,701.92
S1-D131	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower	EA	12	\$ 1,093.65	, ,				
S1-D132	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	EA	0	\$ -	\$ -	\$ -	-	\$ -	\$ -

TRANSMISSION LINE: Construction Front 2 SEGMENT 3 Provided under NDA

Valard Construction LP 10/01/2014



								Vara	
Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-E	Sub-total (S1- Installation of Wires and OPGW (S1-Ex)	·Dx) : Tower Asser	mbly & Erection	375,516.65	\$ 27,849,032.18	\$ - \$	51,649,320.45	\$ 6,579,312.65	\$ 79,498,352.63
\$1-E	Installation of Wire's and OPGW (S1-EX) Installation of Counterpoise wire, connection with tower grounding	KM	227	\$ 10,738.66	\$ 1,115,788.99	\$ - \$	1,517,426.90	\$ 11,600.07	\$ 2,633,215.89
S1-E2	Installation of ground rods at crossing obstacles in soil and rock	EA	120	\$ 120.00	\$ 12,997.20	\$ - \$	16,987.20	\$ 249.87	\$ 29,984.40
\$1-E3	Tower Footing resistance measurement	EA	227	\$ 227.00	\$ 8,076.66	\$ - \$	31,507.60	\$ 174.38	\$ 39,584.26
S1-E4	S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, complete for both poles S2 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	0	\$ -	·	\$ - \$		\$ -	\$ -
S2-E4	ACSR Conductor, complete for both poles S3 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	0	\$ -	·	\$ - \$		\$ -	\$ -
S3-E4	ACSR Conductor, complete for both poles 54 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	0	\$ 92,500.30 \$ -	\$ 13,181,858.22	· ·	12,996,122.28	\$ 115,321.50 \$ -	\$ 26,177,980.50
S4-E4 S5-E4	ACSR Conductor, complete for both poles S5 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	0	\$ -		\$ - \$ \$ - \$		\$ -	\$ - \$ -
\$1-E5	ACSR Conductor, complete for both poles Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	KM	0	\$ -		\$ - \$		\$ -	\$ -
S1-E6	Grackle Conductor, complete for both electrodes Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR	KM	0	\$ -	·	\$ - \$		\$ -	\$ -
S1-E7	Falcon Conductor, complete for both electrodes Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR Grackle Conductor, complete for both electrodes	KM	0	\$ -		\$ - \$		\$ -	\$ -
S1-E8	Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR Falcon Conductor, complete for both electrodes	км	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-E9 S1-E10	Installation of ADSS on Wood Poles	KM EA	0	\$ - \$ -		\$ - \$ \$ - \$		\$ -	\$ - \$ -
S1-E10	ADSS splicing and tests including loss analysis ADSS end to end test	LS	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-E12 S2-E12	S1 - Installation of OPGW S2 - Installation of OPGW	KM KM	0	\$ - \$ -		\$ - \$ \$ - \$		\$ - \$ -	\$ - \$ -
S3-E12 S4-E12	S3 - Installation of OPGW S4 - Installation of OPGW	KM KM	227 0	\$ 19,001.94 \$ -	\$ 2,704,934.27 \$ -	\$ - \$ \$ - \$		\$ 23,223.02	\$ 5,271,625.54 \$ -
S5-E12	S5 - Installation of OPGW	KM	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-E13 S1-E14	OPGW Continuity tests before and after stringing OPGW splicing and tests including loss analysis	LS EA	1 50	\$ 844.80 \$ 2,000.00				\$ 167,525.51 \$ 8,363.52	\$ 167,525.51 \$ 418,176.00
S1-E15	OPGW end to end test	LS Loctaliation of V	1	\$ 192.00	\$ 15,706.95	\$ - \$	22,367.04	\$ 38,073.99	\$ 38,073.99
S1-F	Sub-total (S1-Ex) Miscellaneous Tower Attachments and Acce	: Installation of Vessories (S1-Fx)	vires and OPGW	125,624.70	\$ 17,275,243.36	\$ - \$	17,500,922.73	\$ 364,531.86	\$ 34,776,166.09
S1-F1	Install 18" Aerial marker cones	EA	5	\$ 20.00					
\$1-G	Sub-total (S1-Fx): Miscellaneous To Framing and Setting of Wood Poles (S1-Gx)	wer Attachment	and Accessories	20.00	\$ 1,715.05	\$ - \$	2,790.30	\$ 901.07	\$ 4,505.35
\$1-G \$1-G1	Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing	EA	0	\$ -	\$ -	\$ - 5		\$ -	\$ -
S1-G2	505573-4633-4ZDD-0011 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as		0	\$ -		\$ - \$		\$ -	\$ -
S1-G3	per Drawing 5055/3-4633-4ZDD-0012 Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with Guys as per Drawing 505573-4633-4ZDD-0020	EA	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-G4	as per brawing 505575-4653-42D0-0020 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 505573-4633-4ZDD-0021	EA	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-G5	Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-42DD-0013	EA	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-G6	Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing 505573-4633-4ZDD-0061	EA	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
	Sub-total (S1-Gx) : Fr	raming and Settin	g of Wood Poles		\$ -	\$ - \$	-	\$ -	\$ -
S1-I	Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as								
S1-I1	per Design Drawings and Technical Specifications Design and supply of micropile option as replacement for H-pile	LS	1	\$ - \$ -		\$ - \$		\$ -	\$ -
S1-I2 S1-I3	design Optional cost for mulching given area instead of salvaging	EA Ha	17 1,292	\$ -		\$ - \$		\$ -	\$ -
S1-I4	Installation of Access Road - Alternative Slack Span Connections - Installation of all Conductor and OPGW from	КМ	0	\$ -		\$ - \$		\$ -	\$ -
S1-I5	Terminal Tower to the Substation Gantry Slack Span Connections - Installation of all Conductor and	LS	1	\$ 238.00	\$ 29,257.24	\$ - \$	33,509.02	\$ 62,766.26	\$ 62,766.26
S1-I6	OPGW/ADSS from Terminal Wood Pole to the Electrode Compound Gantry	LS	0	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-I7 S1-I8	Supply and Installation of Culvert - 1000 mm Supply and Installation of Culvert - 1200 mm	LM LM	19 19	\$ -	•	\$ - \$ \$ - \$		\$ - \$ -	\$ - \$ -
S1-I9 S1-I10	Supply and Installation of Culvert - 1600 mm Supply and Installation of Culvert - 2000 mm	LM LM	19 19	\$ -	•	\$ - \$		\$ -	\$ - \$ -
S1-I10 S1-I11	Supply and Installation of Culvert - 2000 mm	LM	19	\$ -	\$ -	\$ - \$	-	\$ -	\$ -
S1-I12 S1-I13	Supply and Installation of Culvert - 3000 mm Assembly and Installation of Foundation Type A1-1/1A, per kg, to be	LM KG	19	\$ -	•	\$ - \$ \$ - \$		\$ -	\$ - \$ 2.22
S1-I14	used for weight increases or decreases Assembly and Installation of Foundation Type A2-1/1A, per kg, to be	KG	1	\$ 0.01		<u> </u>		\$ 2.22	\$ 2.22
S1-I15	used for weight increases or decreases Assembly and Installation of Foundation Type A3-1/1A, per kg, to be	KG	1	\$ 0.01	-			\$ 2.22	\$ 2.22
S1-I16	used for weight increases or decreases Assembly and Installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases	к	1	\$ 0.01	\$ 0.95	\$ - \$	1.27	\$ 2.22	\$ 2.22
S1-I17	Assembly and Installation of Foundation Type B1-1/1A, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.95	\$ - \$	1.27	\$ 2.22	\$ 2.22
S1-I18	Assembly and Installation of Foundation Type B2-1/1A, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.80	\$ - \$	1.06	\$ 1.86	\$ 1.86
S1-I19	Assembly and Installation of Foundation Type C1-1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.95	\$ - \$	1.27	\$ 2.22	\$ 2.22
S1-I20	Assembly and Installation of Foundation Type C2-1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.95	\$ - \$	1.27	\$ 2.22	\$ 2.22
S1-I21	Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.80	\$ - \$	1.06	\$ 1.86	\$ 1.86
S1-I22	Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.95	\$ - \$	1.27	\$ 2.22	\$ 2.22
S1-I23	Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases or decreases Assembly and Installation of Foundation Type A1-2, per kg, to be used	KG	1	\$ 0.01				\$ 2.22	·
S1-I24	Assembly and installation of roundation Type A1-2, per kg, to be used for weight increases or decreases Assembly and Installation of Foundation Type A2-2, per kg, to be used	KG	1	\$ 0.01				\$ 2.22	\$ 2.22
S1-I25	for weight increases or decreases Assembly and Installation of Foundation Type A3-2, per kg, to be used	KG	1	\$ 0.01	-				
S1-I26 S1-I27	for weight increases or decreases Assembly and Installation of Foundation Type A4-2, per kg, to be used	KG KG	1	\$ 0.01		·		•	·
S1-I27	for weight increases or decreases Assembly and Installation of Foundation Type B1-2, per kg, to be used	KG	1	\$ 0.01	-				
S1-I28	for weight increases or decreases Assembly and Installation of Foundation Type B2-2, per kg, to be used	KG	1	\$ 0.01					
S1-I30	for weight increases or decreases Assembly and Installation of Foundation Type C1-2, per kg, to be used for weight increases or decreases.	KG	1	\$ 0.01	-			\$ 2.22	
S1-I31	for weight increases or decreases Assembly and Installation of Foundation Type C2-2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01				\$ 2.22	
S1-I32	for weight increases or decreases Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01					
S1-I33	for weight increases or decreases Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$ 0.95	\$ - \$	1.27		
S1-I34	No weight increases on decreases as decreases of decrease	KG	1	\$ 0.01	\$ 0.95	\$ - \$	1.27	\$ 2.22	\$ 2.22
S1-I35	Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$ 2.66	\$ - \$	4.07	\$ 6.73	\$ 6.73
S1-I36	Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$ 2.85	\$ - \$	4.22	\$ 7.07	\$ 7.07
S1-I37	Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$ 2.85	\$ - \$	4.22	\$ 7.07	\$ 7.07
S1-I38	Assembly and Erection of Tower Type A4, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$ 2.66	\$ - \$	4.07	\$ 6.73	\$ 6.73
31 130				i					
S1-I39 S1-I40	weight increases or decreases Assembly and Erection of Tower Type B1, per kg, to be used for weight increases or decreases Assembly and Erection of Tower Type B2, per kg, to be used for	KG KG	1	\$ 0.03 \$ 0.03					

TRANSMISSION LINE: Construction Front 2 SEGMENT 3 Provided under NDA



Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Ec	uipment(\$)	Material (\$)		Labour(\$)	Tota	l Unit Price(\$)	Suk	total Price (\$)
\$1-141	Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03		2.88	\$ -	\$	4.28	\$	7.16	\$	7.16
\$1-142	Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.88	\$ -	\$	4.28	\$	7.16	\$	7.16
	Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.88	\$ -	\$	4.28	\$	7.16	\$	7.16
\$1-144	Assembly and Erection of Tower Type D2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.88	\$ -	\$	4.28	\$	7.16	\$	7.16
\$1-145	Assembly and Erection of Tower Type E1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.88	\$ -	\$	4.28	\$	7.16	\$	7.16
S1-I46	Survey Cost	LS	1	\$ -	\$	803,293.50	\$ 40,164.5	3 \$	495,366.83	\$	1,338,824.86	\$	1,338,824.86
	S	Sub-total (S1-Ix):	Optional Pricing	238.53	\$	29,308.77	\$ -	\$	33,582.81	\$	62,891.58	\$	1,401,716.44
	TOTAL VALUE THIS PROPOSAL (Tax Excluded):												269,564,473.14
	FOR THE LOWER CHURCHILL PROJECT - MUSKRAT FALLS												
	This Appendix forms part of the Proposal submitted by:												
	Name of Bidder:												
	Request For Proposal no: 505573-CT0327												
	Signature:												
	Date of Proposal:												•
Notes:													
1													





Project Estimate - Valence and egigines	VH00	NALCOR 3	50 kV HVdc Line Construction Fro	ont 2 (Long Range Mounta	ins)			
Note Content Preparation					•			
Part		•						
Part Part		man riodi Estinato, i minary structures and equipment						
Part Part		External Data Input	Indirect Cost Percentage:	0.32				
Marcon		Link from Other Page	Hours Per Day:	11.00 Travel Time		1		
Parent March State Sta		Link for Other Page	Project Dates:			3		
Page Page					Segment 3	1.5		
Periodic Provide Pro		NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mounta	<mark>n</mark> s)	Crew Cost			Total Unit Cost	
\$ \$4.0 \$5.0 \$6.0	Payment			Hours per			Manhours and	
SH-A General Works (SH-Ac) SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization Total structure count: SH-A trimat Demobilization SH-A Final Demobilization SH-A Final Demobilization SH-A Final Demobilization SH-A Final Demobilization SH-A Secondocality of the second of the seco	Item	Description	Total Crew No.	unit Hourly Rate	Unit Cost Subtotal	Units Unit Cost	Materials Materials Total Materials	aterials
SH-A General Works (SH-Ac) SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization SH-A trimat Mobilization Total structure count: SH-A trimat Demobilization SH-A Final Demobilization SH-A Final Demobilization SH-A Final Demobilization SH-A Final Demobilization SH-A Secondocality of the second of the seco								
Medilication and Device in Mobilization (Note of the Court of Cour		2 3	4 5 6 7	8.00	9 10	11 12 13	14 15	16
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain					Crew Cost						otal Unit Cost	
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Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials Total Mate	ials
V::A05	S1-A5 Meals for Company/Engineer visitors S1-A5 Meals for Company/Engineer visitors	Total struct	ure count:	1000	meal			\$	- \$	-	\$ 41.68 \$	41.68 \$	41,677.15
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V::A06	S1-A6 Parent Guarantee Article 7.4	Total struct	ure count:	1	LS			\$	- \$	-	\$ - \$	- \$	-
	S1-A6 Parent Guarantee Article 7.4				-								
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V::A07	S1-A7 Letter Of Credit Article 7.6	Total struct	ure count:	1	LS			\$	- \$	-	\$ - \$	- \$	_
	S1-A7 Letter Of Credit Article 7.6	Total of do	aro count.	•					•		,	•	
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V::A08	S1-A8 Performance Bonding Article 7.1 S1-A8 Performance Bonding Article 7.1	Total struct	ure count:	1	LS			\$	- \$	-	- 3	- \$	-
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V::A09	S1-A9 Labour and Materials Bonding Article 7.2	Total struct	ure count:	1	LS			\$	- \$	-	- \$	- \$	-
	S1-A9 Labour and Materials Bonding Article 7.2												
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_	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountai					Crew Cost						otal Unit Cost	
Payment Item	Description		Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials N	lanhours and Materials	Total Materials
V-H04 V::B01	S1-B Right-of-Way Clearing - Direct Costs (S1-Bx) S1-B1 ROW Clearing S1-B1 ROW Clearing	Total struct	ture count:	1292	На	,		\$ -			19,550.00 \$		
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V::B02	S1-B2 Removal of selected danger trees	Total struct	ture count:	500	EA			\$ -	9	- \$	210.00 \$	210.00	\$ 105,000.0
	S1-B2 Removal of selected danger trees												
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V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	each	500 500 ture count:	606	LM	Ψ	\$ - \$ -	\$ -	500 \$	- - - \$	426.01 \$	426.01	\$ 258,159.6
V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	each each	500 500 ture count:	606		Ψ	\$ - \$ -	\$ - \$ - \$ -	500 \$	- \$	426.01 \$	426.01	\$ 258,159.6
V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	each each Total struct	500 500 ture count: 606 606	606		\$	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	500 \$	- \$ - \$	426.01 \$	426.01	\$ 258,159.6
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V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	each each Total struct each each each each each	500 500 ture count: 606 606 606 606	606		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	500 \$	- \$	426.01 \$	426.01	\$ 258,159.0
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V::B03 V::B04	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2 S1-B4 Supply and Installation of Bridge - 3 m	each each each each each each each each	500 500 500 500 500 606 606 606 606 606	606		\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	500 \$ 606 \$ 60	- \$ \$		426.01 32,700.00	
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	s)				Crew Cost					Total U	nit Cost	
Payment]΄ ι	Jnits		Hours per						Manhou	urs and	!
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials Mat	terials Total N	Materials
V::B05	S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m	Total struct	ure count:	0	EA			-		\$ - \$	43,600.00 \$	13,600.00 \$	-
		each	0			\$ -	\$ -	\$ -	0	\$ -			
		each	0			\$ -		\$ -	0	\$ -			
		each	0			\$ -	\$ -	\$ -	0	\$ -			
		each	0			\$ -	\$ -	\$ -	0	\$ -			
		each	0			\$ -	\$ -	\$ -	0	\$ -			
		each	0			\$ -		\$ -	0	\$ -			
		each	0			\$ -		\$ -	0				
		each	0			\$ -		\$ -	0	\$ -			
		each	0			\$ -	\$ -		0				
V::B06	S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m	Total struct	ure count:	9	EA		\$ -	\$ -		\$ - \$	54,500.00 \$ \$	54,500.00 \$	490,500.00
		each	9			\$ -	\$ -	-	9	\$ -			
		each	9			\$ -/		\$ -	9	\$ -			
		each	9			\$ -	\$ -		9	\$ -			
		each	9			\$ -		\$ -	9	\$ -			
		each	9			\$ -	\$ -		9	\$ -			
		each	9			\$ -		\$ -	9	\$ -			
		each	9			\$ -		\$ -	9	\$ -			
		each	9			\$ -		\$ -	9	\$ -			
		each each	9			\$ -	\$ -	\$ -	9	\$ - \$ -			
		each	9			\$ -	\$ -		9				
V::B07	S1-B7 Supply and Installation of Bridge - 6 m	Total struct	-	1	EA		\$ -	\$ - \$ -		\$ - \$ - \$	65,400.00 \$ 6	65,400.00 \$	65,400.00
	S1-B7 Supply and Installation of Bridge - 6 m								1				
		each	1			\$		\$ -	1	\$ -			
		each	1			\$ -	\$ - \$ -	\$ -	1	\$ - c			
		each each	1			\$ -		\$ - \$ -	1	\$ -			
		each	/1			\$ -		\$ -	1	\$ - \$ -			
		each	1	_		\$ -		\$ -	1				
		each	1			\$ -	\$ -		1	\$ -			
		each	1			\$ -		\$ -	1	\$ -			
		each	1	4		\$ -	\$ -		1	\$ -			
		each	1			\$ -	\$ -		1	\$ -			
		each	1			\$ -	\$ -		1	\$ -			
		Guon				, v		\$ -		\$ -			



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mounta					Crew Cost						Total Unit Cost		
Payment		Uı	nits		Hours per			0.11.1				Manhours and		
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B08	S1-B8 Supply and Installation of Bridge - 7 m S1-B8 Supply and Installation of Bridge - 7 m	Total structu	re count:	2	EA			\$	- \$	-	\$ 76,300	<mark>.00</mark> \$ 76,300.00	\$	152,600.00
														
		each	2			-			- 2 \$	-				
		each	2			-	\$ -	•	- 2 \$					
		each	2				\$ -	\$						
		each	2			-	\$ -		2 \$	-				
		each	2			-	\$ -		- 2 \$	-				
		each	2			-	\$ -		- 2 \$					
		each	2			-	\$ -		- 2 \$	-	_			
		each	2				\$ - \$ -		- 2 \$ - 2 \$	-	_			
		each	2			<u>-</u>			4		4			
		each each	2											
		eacii	2				\$ -			-				
V::B09	S1-B9 Supply and Installation of Bridge - 8 m	Total structu	re count:	1	EA			\$	- \$	-	\$ 87,200	9.00 \$ 87,200.00	\$	87,200.00
	S1-B9 Supply and Installation of Bridge - 8 m													
		each	1			-	\$ -	\$	- 1 \$	-				
		each	1		:	-	\$ -	\$	- 1 \$	-				
		each	1			-	\$ -	\$	- 1 \$	-				
		each	1		!	-	\$ -	\$	- 1 \$					
		each	1			-	\$ -	\$	- 1 \$					
		each	1			-	\$ -	<u> </u>	- 1 \$					
		each	1			-	\$ -		- 1 \$	-				
		each	1			-	\$ -		- 1 \$	-				
		each	1			-	\$ -		- 1 \$	=				
		each	1				\$ -		- 1 \$					
		each	1			-	\$ -	<u> </u>	- 1 \$ - \$	-	_			
							Ψ -				_		_	
V::B10	S1-B10 Supply and Installation of Bridge - 10 m S1-B10 Supply and Installation of Bridge - 10 m	Total structu	re count:	3	EA			\$	- \$	-	\$ 109,000	0.00 \$ 109,000.00	\$	327,000.00
								_						
		each	3			-	\$ -	\$	- 3 \$		7			
		each	3			5 -	\$ -	•	- 3 \$		+			
		each	3			-	\$ -	-	- 3 \$	<u>-</u>	_			
		each	3			-	\$ -	<u> </u>	- 3 \$		+			
		each	3			-	\$ -		- 3 \$		+			
		each	3				\$ -	\$	- 3 \$		+			
		each	3			-	\$ -	· :	- 3 \$		+			
		each	3			<u> </u>	\$ -		- 3 \$		†			
		each	3				\$ -	1	- 3 \$		7			
		each	3				\$ -	-	- 3 \$		7			
		each	3		!	-	\$ -		- 3 \$					
							\$ -	\$	- \$	-				



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	ins)				Crew Cost						Total Unit Cost		
Payment	, , , ,	Units			Hours per							Manhours and		
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B11	S1-B11 Supply and Installation of Bridge - 13 m S1-B11 Supply and Installation of Bridge - 13 m	Total structure o	count:	1	EA			\$ -	\$	-	\$ 141,700.00	\$ 141,700.00	\$	141,700.00
		each	1			\$ -	\$ -	-	1 \$		Т			
		each	1			\$ -	\$ -	\$ -	1 \$		<u>_</u>			
		each	1			\$ -	\$ -	\$ -	1 \$		<u>_</u>			
		each	1			\$ -	\$ -	\$ -	1 \$	<u> </u>	<u>_</u>			
		each	1			\$ -	\$ -	\$ -	1 \$		<u> </u>			
		each	1			\$ -	\$ -	\$ -	1 \$					
		each	1			\$ -	\$ -	\$ -	1 \$	-				
		each	1			\$ -	\$ -	\$ -	1 \$	-	+			
		each	1			\$ -	\$ -		1 \$	-	+			
		each	1			\$ -	\$ -		1 \$	_	-			
		each	1			\$ -	\$ -		1 \$		-			
		oden	<u></u>			Y	\$ -		\$	-				
V::B12	S1-B12 Supply and Installation of Bridge - 14 m S1-B12 Supply and Installation of Bridge - 14 m	Total structure c	count:	0	EA			-	\$	-	\$ 152,600.00	\$ 152,600.00	\$	-
											_			
		each	0			\$ -	\$ -	\$ -	0 \$	-				
		each	0			\$ -		\$ -	0 \$	-				
		each	0			\$ -	\$ -		0 \$	-				
		each	0			\$ -	\$ -	\$ -	0 \$	-				
		each	0			\$ -	\$ -	\$ -	0 \$	-				
		each	0			\$ -	\$ -	\$ -	0 \$	-				
		each	0			\$ -	\$ -	\$ -	0 \$	-				
		each	0			\$ -	-	-	0 \$	-				
		each	0			-	-	\$ -	0 \$	-				
		each	0			<u>-</u>		\$ -	0 \$	-				
		each	0			\$ -	\$ - \$ -	\$ - \$ -	0 \$	-				
V::B13	S1-B13 Supply and Installation of Bridge - 15 m S1-B13 Supply and Installation of Bridge - 15 m	Total structure o	count:	2	EA			\$ -	\$	-	\$ 163,500.00	\$ 163,500.00	\$	327,000.00
								T	1 .		7			
		each	2			\$ -	\$ -	\$ -	2 \$	-	1			
		each	2			\$ -	\$ -	\$ -	2 \$	-	4			
		each	2			\$ -		\$ -	2 \$	-				
		each	2			\$ -	\$ -	\$ -	2 \$	-				
		each	2			\$ -		\$ -	2 \$	-	4			
		each	2			5 -	· ·	\$ -	2 \$	-	1			
		each	2			<u>\$</u>	<u>'</u>	\$ -	2 \$	-	1			
		each	2			<u> </u>	\$ -		2 \$	-	1			
		each	2			<u> </u>	<u>'</u>	\$ -	2 \$	=	4			
		each each	2 2			\$ - \$ -	\$ - \$ -		2 \$	-	+			
		Eaul	2			-		\$ - \$ -		-	1			
							- · · · · · · · · · · · · · · · · · · ·	-	Ψ					



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain					Crew Cost						Total Unit Cost		
ayment em	Description		Jnits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
::B14	S1-B14 Supply and Installation of Bridge - 16 m S1-B14 Supply and Installation of Bridge - 16 m	Total struct	ure count:	1	EA			-	\$	- \$	174,400.00	\$ 174,400.00	\$	174,400.00
		each	1			\$ -	\$ -	\$ -	1 \$	-				
		each	1			\$ -	*	\$ -	1 \$					
		each	1			\$ -	·	\$ -	1 \$					
		each each	1			\$ - \$ -		\$ - \$ -	1 \$					
		each	1			\$ - \$ -		\$ -	1 \$					
		each	1			\$ -	<u> </u>	\$ -	1 \$					
		each	1			\$ -		\$ -	1 \$					
		each	1			\$ -	\$ -	\$ -	1 \$	-				
							\$ -	\$ -	\$	-				
D45	C4 D45 Comply and Installation of Dridge 25 mg	Total atmust	uro count.	1	ΕΛ			\$ -	\$	- \$	272 500 00	¢ 272 E00 00	•	272,500.
::B15	S1-B15 Supply and Installation of Bridge - 25 m S1-B15 Supply and Installation of Bridge - 25 m	Total struct	ure count.	·	EA			•	D	- 4	272,300.00	\$ 272,500.00	4	272,500.
		each	1			\$ -	\$ -	\$ -	1 \$	-				
		each	1			\$ -	\$ -		1 \$	-				
		each	1			\$ -	\$ -	\$ -	1 \$					
		each	1			\$ -/		\$	1 \$					
		each	1			\$ -	\$ -		1 \$					
		each	1			\$ -		\$ -	1 \$					
		each	1			\$ - \$ -		\$ -	1 \$					
		each												
			1			7		\$ -	1 \$					
		each	1			\$ -	\$ -	\$ - \$ -	1 \$	-				
:B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m		1	1	EA	7	\$ - \$ -	\$ -	1 \$	- \$	381,500.00	\$ 381,500.00	\$	381,500.
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each Total struct	ure count:		EA	7	\$ - \$ -	\$ - \$ - \$ -	1 \$ \$ \$	- \$	381,500.00	\$ 381,500.00	\$	381,500.
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each	ure count:		EA	\$	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ 1 \$ 1 \$	- \$	381,500.00	\$ 381,500.00	\$	381,500
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each	1 1 1 1 1 1 1		EA	\$	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ 1 \$ 1 \$ 1 \$	- - - \$	381,500.00	\$ 381,500.00	\$	381,500
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each	1 1 1 1 1 1 1 1		EA	\$	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ 1 \$ 1 \$ 1 \$ 1 \$	- - \$	381,500.00	\$ 381,500.00	\$	381,500
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each	1 1 1 1 1 1 1		EA	\$	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$	- - \$	381,500.00	\$ 381,500.00	\$	381,500
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each each each	1 1 1 1 1 1 1 1		EA	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - -	381,500.00	\$ 381,500.00	\$	381,500
:B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each each each	1 1 1 1 1 1 1 1		EA	\$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$	381,500.00	\$ 381,500.00	\$	381,500.
:B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each each each	1 1 1 1 1 1 1 1		EA	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$	381,500.00	\$ 381,500.00	\$	381,500
B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each each each	1 1 1 1 1 1 1 1		EA	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$	381,500.00	\$ 381,500.00	\$	381,500
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		EA	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$		\$ 381,500.00 \$ 545,000.00		
	S1-B16 Supply and Installation of Bridge - 35 m	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 ure count: 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 ure count: 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 ure count: 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
:B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 ure count: 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$				
	S1-B16 Supply and Installation of Bridge - 35 m S1-B17 Supply and Installation of Bridge - 50 m	each each each each each each each each	1 ure count: 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0	0		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ \$				381,500.0



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain					Crew Cost					Total Unit Cost	
Payment		Uı	nits		Hours per						Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials Materials	Total Materials
V::B18	S1-B18 Supply and Installation of Bridge - 60 m S1-B18 Supply and Installation of Bridge - 60 m	Total structu	re count:	0	EA		l	\$ -		\$ - <mark>\$</mark>	654,000.00 \$ 654,000.0	
		each	0			\$ -	\$ -	\$ -	0	\$ -		
		each	0			\$ -		\$ -	0	\$ -		
		each	0			\$ -		\$ -	0			
		each	0			\$ -		\$ -				
		each	0			\$ -		\$ -				
		each	0			\$ -		\$ -				
		each	0			\$ -		\$ -	0	\$ -		
		each	0			\$ -	\$ -	\$ -		\$ -		
		each	0			\$ -	\$ -	\$ -	0	\$ -		
							\$ -	\$ -		\$ -		
V::B19		Total structu	ire count:	0	EA			\$ -		- \$	708,500.00 \$ 708,500.0	
	S1-B19 Supply and Installation of Bridge - 65 m											
		each	0			-	\$ -	\$ -	0	¢		
		each	0			\$ -		\$ -	_	\$ - \$ -		
		each	0			\$ -	\$ -		-			
		each	0			\$ -		\$ -		\$ -		
		each	0			\$ -	\$ -	<u> </u>		\$ -		
		each	0			\$ -		\$ -		\$ -		
		each	0		<u></u>	\$ -		\$ -		\$ -		
		each	0			\$ -		\$ -				
		each	0			\$ -		\$ -				
	ļ	545						\$ -		\$ -		
					A A			•	_	•		
V::B20	S1-B20 Installation of Corduroy Road S1-B20 Installation of Corduroy Road	Total structu	re count:	3528	LM		•	-		\$ - \$	139.45 \$ 139.4	45 \$ 491,976.07
		each	3528			\$ -	\$ -	\$ -	3528	\$ -		
		each	3528			\$ -	\$ -	\$ -	3528	\$ -		
		each	3528			\$ -	\$ -	\$ -	3528	\$ -		
		each	3528			\$		\$ -		\$ -		
		each	3528			\$ -	\$ -	\$ -				
		each	3528			\$ -	\$ -			\$ -		
		each	3528			\$ -	·	\$ -		\$ -		
		each	3528			\$ -		\$ -		\$ -		
		each	3 528			-		\$ -				
							\$ -	\$ -		\$		
V::B21	S1-B21 Installation of Access Road - Access Class 3 S1-B21 Installation of Access Road - Access Class 3	Total structu	ire count:	173	KM		I	\$ -		\$ - \$	80,700.00 \$ 80,700.0	00 \$ 13,961,100.00
		each	173			\$ -	\$ -	\$ -	173	\$ -		
		each	173			\$ -	\$ -			\$ -		
		each	173			\$ -	\$ -			\$ -		
		each	173			\$ -	\$ -	\$ -		\$ -		
		each	173			\$ -	\$ -		173	\$ -		
		each	173			\$ -	\$ -		173	\$ -		
		each	173			\$ -	\$ -	\$ -	173	\$ -		
		each /	173			\$ -	\$ -	•	173	\$ -		
		each	173			\$ -	\$ -	\$ -		\$ -		
							\$ -	\$ -		\$ -		



Second Figure F		Total Unit Cost						Crew Cost				OR 350 kV HVdc Line Construction Front 2 (Long Range Mountains)	
V:822 S1-822 Installation of Access Read - Access Trail Total structure counts 11 N/4 S S S N/700000 S	T	Manhours and				0.14.4.1			Hours per				
9: 622 Installation of Access Road - Digoso Trail 18	Total Materials	is Materials	Materials	Unit Cost	Units	Subtotal	Unit Cost	Hourly Rate	unit	Crew No.	lotal	ition	em
V:823 S1-823 Installation of Access Road - Bypass Trail	0 \$ 887,700.00	,700.00 \$ 80,700.00	80,700.	- \$		-	\$		KM	11	ture count:		:B22
V-823 S1-823 Installation of Access Road - Bypass Trail				-	11 5	_	\$ - \$	\$ -			11	each	
Cook 17				-	11 5	-		\$ -			11	each	
Second 11								\$ -					
Sept 11								- :					
Company Comp								Ψ					
St-823 Institution of Access Road - Bypass Trail Total structure count: 18								<u> </u>					
St. #22 Installation of Access Road - Bypass Trail Total structure count: 18								¥					
V:823 S1-823 installation of Access Road - Bypass Trail Total structure count:								Ψ -				eacii	
each 16	0 \$ 1,452,600.00	,700.00 \$ 80,700.00	80,700.	- \$					<u> </u>	18	ture count:	Installation of Access Road - Bypass Trail Installation of Access Road - Bypass Trail Total structure.	:B23
					10 0		¢ ¢	¢			19	each	
Second 16				-	18 9			T					
Reach 18													
Company Comp				-	18 9			\$ -					
Company Comp				-	18 9	-	\$ - \$	\$ -			18	each	
V::B24 S1-B24 Installation of Access Road - loe Bridge Total structure count: 6.4 LM				-	18 5			\$ -				each	
V::B24 S1-B24 Installation of Access Road - Ice Bridge Total structure count: 6.4 LM S S S S S 7,200.00 \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ 7,200.00 \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ \$ 7,200.00 \$ 7,200.00 \$ 7,200.00 \$ \$ 7,200.00 \$ 7,20								7					
V::B24 Installation of Access Road - Ice Bridge Total structure count: 64 LM S S S S S S S S S								\$ -			18	each	
Sach 64 S S S S S S S S S	0 \$ 460,800.00	200.00 \$ 7,200.00	7,200.						LM			Installation of Access Road - Ice Bridge	
V:H06 V:B25 V:B25 V:B25 V:B25 V:B26 V:B26 V:B26 V:B27 V:B27 V:B27 V:B27 V:B27 V:B27 V:B27 V:B27 V:B27 V:B28 V:B27 V:B28 V:B27 V:B28				-	64 8			\$ -					
Company Comp				-	64 3			5 -					
V-H06 V:B25 S1-B Right-of-Way Clearing S1-BZ5 ROW Clearing S1-BZ5 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ6 ROW Clearing S1-BZ7				-	64 3			\$ -					
V-H06 V::B25 S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B25 ROW Clearing S1-B25 ROW Clearing Total structure count:				_	64 5			\$ -					
V-H06 V::B25 S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B Right-of-Way Clearing for Wood Po								\$					
V-H06 V::B25 S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B25 ROW Clearing S1-B25 ROW Clearing each 0				-	64 5			\$ -				each	
V-H06 V::B25 S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B25 ROW Clearing S1-B25 ROW Clea				-	64 3			\$ -				each	
V::B25 S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx) S1-B25 ROW Clearing S1-B25 ROW Clearing								\$ -			64	each	
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	s)				Crew Cost						Total Unit Cost	
Payment]΄ ι	Jnits		Hours per							Manhours and	
	Description		Total	Crew No.	unit .	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B26	S1-B26 Removal of selected danger trees S1-B26 Removal of selected danger trees	Total structi	ure count:	0	EA			\$ -	\$	-	\$ 210.00	\$ 210.00	\$ -
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		each	0			\$ -	\$ -		0 \$				
		each	0			\$ -	\$ -	\$ -	0 \$	_			
V::B27	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	Total struct	ure count:	0	LM				\$	-	\$ 426.01	\$ 426.01	\$ -
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V::B28	S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m	Total structi	ure count:	0	EA	O		\$ -	\$	-	\$ 32,700.00	\$ 32,700.00	-
		each	0			\$ -	\$ -			-			
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain					Crew Cost						Total Unit Cost	
Payment		l	Jnits		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B29	S1-B29 Supply and Installation of Bridge - 4 m S1-B29 Supply and Installation of Bridge - 4 m	Total struct	ure count:	0	EA	1		\$ -		\$ - \$	43,600.00	\$ 43,600.00	\$
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V::B30	S1-B30 Supply and Installation of Bridge - 5 m S1-B30 Supply and Installation of Bridge - 5 m	Total struct	ure count:	0	EA			\$ -		- \$	54,500.00	\$ 54,500.00	\$
		each	0)		-	\$ -	-	0	\$ -			
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::B31	S1-B31 Supply and Installation of Bridge - 6 m S1-B31 Supply and Installation of Bridge - 6 m	Total struct	ure count:	0	EA			\$ -		\$ - \$	65,400.00	\$ 65,400.00	\$
		each	0			\$	\$ -	-	0	\$ -			
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	ıs)				Crew Cost						Total Unit Cost	
Payment			Jnits		Hours per							Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Total Materials
V::B32	S1-B32 Supply and Installation of Bridge - 7 m	Total structi	ure count:	0	EA			\$ -		\$ - \$	76,300.00	\$ 76,300.00	\$ -
	S1-B32 Supply and Installation of Bridge - 7 m		,										
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V::B33	S1-B33 Supply and Installation of Bridge - 8 m S1-B33 Supply and Installation of Bridge - 8 m	Total structi	ure count:	0	EA			-		\$ - \$	87,200.00	\$ 87,200.00	-
	51-633 Supply and Installation of Bridge - 8 m		İ										
		each	0			\$ -	\$ -	\$ -	0	\$ -			
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VB04	O4 D04 Completed discontinues of Dridge 40 mg	T-1-1-1-1		•				\$ -		^	400 000 00	f 400 000 00	•
V::B34	S1-B34 Supply and Installation of Bridge - 10 m S1-B34 Supply and Installation of Bridge - 10 m	Total structi	ure count:	0	EA			\$ -		\$ - \$	109,000.00	\$ 109,000.00	-
	31-634 Supply and installation of bridge - 10 in												
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	<mark>n</mark> s)				Crew Cost						Total Unit Cost	
Payment		<u></u> ι	Jnits		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
VD25	C4 P25 Comply and Installation of Pridge 42 m	Total struct	uro count.		EA			\$ -		\$ - \$	141 700 00	\$ 141,700.00	l e
V::B35	S1-B35 Supply and Installation of Bridge - 13 m S1-B35 Supply and Installation of Bridge - 13 m	iotai struct	ure count:	0	EA			-		\$	141,700.00	\$ 141,700.00	-
	61-555 Supply and installation of Bridge - 15 m												
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V::B36	S1-B36 Supply and Installation of Bridge - 14 m	Total struct	ure count:	0	EA			\$ -		\$ - \$	152 600 00	\$ 152,600.00	
VD30	S1-B36 Supply and Installation of Bridge - 14 m	Total Struct	ure count.	<u> </u>				Ψ -		Ψ - Ψ	132,000.00	φ 132,000.00	Ψ -
	01-550 ouppry and mistaliation of Bridge - 14 m		Ī										
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V::B37	S1-B37 Supply and Installation of Bridge - 15 m	Total struct	ure count:	0	EA			\$ -		s - s	163 500 00	\$ 163,500.00	-
VD07	S1-B37 Supply and Installation of Bridge - 15 m	Total of dot						•		¥	100,000.00	Ψ 100,000.00	•
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain					Crew Cost						Total Unit Cost	
Payment			Units		Hours per				l I			Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B38	S1-B38 Supply and Installation of Bridge - 16 m S1-B38 Supply and Installation of Bridge - 16 m	Total struct	ture count:	0	EA			\$ -		\$ - \$	174,400.00	\$ 174,400.00	\$ -
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V::B39	S1-B39 Supply and Installation of Bridge - 25 m S1-B39 Supply and Installation of Bridge - 25 m	Total struc	ture count:	0	EA			\$ -		\$ - \$	272,500.00	\$ 272,500.00	\$ -
	51-B39 Supply and Installation of Bridge - 25 m		į										
		each	l 0			\$ -	\$ -	-	0	\$ -			
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V::B40	S1-B40 Supply and Installation of Bridge - 35 m S1-B40 Supply and Installation of Bridge - 35 m	Total struc	ture count:	0	EA			\$ -		\$ - \$	381,500.00	\$ 381,500.00	\$ -
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	<mark>n</mark> s)				Crew Cost						Total Unit Cost	
Payment	, , ,		nits		Hours per			1				Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V 544	04.04.0	T-1-1-1-1						*		^	F.4.F. 000.00	* 545 000 00	•
V::B41	S1-B41 Supply and Installation of Bridge - 50 m S1-B41 Supply and Installation of Bridge - 50 m	Total structu	ire count:	0	EA			-		\$ - \$	545,000.00	\$ 545,000.00	-
	31-041 Supply and installation of bridge - 50 m		İ										
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		1 1					a	\$ -		\$ -			
V::B42	S1-B42 Supply and Installation of Bridge - 60 m	Total structu	ire count:	0	EA			S -		s - s	654 000 00	\$ 654,000.00	· -
VD42	S1-B42 Supply and Installation of Bridge - 60 m	Total Structi	ne count.	U	LA			-		φ - φ	034,000.00	φ 054,000.00	-
	C1-D42 Cupply and installation of Bridge - 00 m		Ī										
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V::B43	S1-B43 Supply and Installation of Bridge - 65 m	Total structu	iro count:	0	EA			\$ -		\$ - \$	700 500 00	\$ 708,500.00	e e
V.:.D43	S1-B43 Supply and Installation of Bridge - 65 m	Total Structi	ire count.	U	EA			a -		р - ф	700,300.00	Φ 100,300.00	.
	The supply and motalisation of Bridge 100 m			_									
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range	<mark>ge Mountain</mark> s)				Crew Cost						Total Unit Cost	
Payment			Jnits		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
							_						
V::B44	S1-B44 Installation of Corduroy Road	Total struct	ure count:	0	LM		\$	-		\$ -	\$ 139.4	\$ 139.45	\$
	S1-B44 Installation of Corduroy Road												
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V::B45	S1-B45 Installation of Access Road - Access Class 3	Total structi	ure count:	0	KM		\$	-		\$ -	\$ 80,700.0	\$ 80,700.00	S -
	S1-B45 Installation of Access Road - Access Class 3									•	• • • • • • • • • • • • • • • • • • • •	•	•
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	S1-B46 Installation of Access Road - Access Trail	Total struct	ure count:	0	KM		\$	-		-	\$ 80,700.0	80,700.00	\$
	S1-B46 Installation of Access Road - Access Trail												
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Payment Item	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain Description	us) Units Total	Crow No.	Hours per	Crew Cost	Unit Cost	Subtotal	Units	Unit Cost	Materials	Total Unit Cost Manhours and Materials	Total Materials	
V::B47	S1-B47 Installation of Access Road - Bypass Trail S1-B47 Installation of Access Road - Bypass Trail	Total structure count:	0	KM	Flourity Nate	Offit Cost	\$ -	Office	\$ -	\$ 80,700.00	\$ 80,700.00	Total Materials	

S1-B47 Installation of Access Road - Bypass Trail							_		
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	NALCOR 350 kV HVdc Line Cons	struction Front 2 (Long Range Mountain					C	Crew Cost						al Unit Cost		
Payment Item	Description			Units Total	Crew No.	Hours per unit	Hou	rly Rate	Unit Cost	Subtotal	Units	Unit Cost	Ma Materials	nhours and Materials	Total Materials	
				1000	SICW NO.	unit	ı ildul	ily itale	Onit Gost	Castotal	Office	Jill OOJ	acoridio		. Star Materials	
V-H07	S1-C Tower Foundation Construction	(S1-Cx)														
V-H08 V::C01	Guy Wire Anchors S1-C1 Installation of Guy Wire Anchor	r in soil as per design drawings and	Total struc	ture count:	15500	LM				\$	-	\$ - \$	468.58 \$	468.58	s	7,263,053.52
VOU1	S1-C1 Installation of Guy Wire Anchor in	n soil as per design drawings and technical spe		ure count.	10000					Ψ		Ψ Ψ	400.00 ψ	400.00	ų.	1,200,000.02
			each	15500			\$	-	·	\$	- 15500	\$ -				
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			each	15500			\$	-	\$ -		- 15500					
				•					\$ -	\$	-	\$ -				
V::C02	S1-C2 Installation of Guy Wire Anchor	r in rock as per design drawings and		ture count:	14500	LM				\$	- /	\$ - \$	432.81 \$	432.81	\$	6,275,676.25
	S1-C2 Installation of Guy Wire Anchor in	n rock as per design drawings and technical spe	ecification													
											1					
			each	14500			\$	-		\$	- 14500	5 -				
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V::C02-1	S1-C2 Testing of Guy Wire Anchor up	to 550kN as per design drawings and	Total struc	ture count:	1304	Ea				\$ 75,9	49.71	\$ 58.24 \$	994.35 \$	1,052.60	\$	1,296,636.79
	S1-C2 Testing of Guy Wire Anchor up to	550kN as per design drawings and technical s	pecification													
	Supervise installation		each	1304	29	0.25	¢	167.19	\$ 41.80	¢ 5/5	04.61 1304	\$ 41.80				
	Placement survey	Supervisory	each	1304	18	0.25	\$	328.91			45.10 1304	\$ 41.80				
	i lacelliciit survey	Foundation Survey (\$250/h)	each	1304	10	0.03	\$	320.91	\$ 10.45		- 1304					
			each	1304			\$	<u>-</u>	· ·	\$	- 1304					
			each	1304			\$		'	\$	- 1304					
			each	1304	1		\$	-	\$ -		- 1304	\$ -				
			each	1304			\$	-	\$ -		- 1304					
			each	1304			\$	-	\$ -	\$	- 1304					
			each	1304			\$	-	\$ -		- 1304	\$ -				
			each	1304			\$	-	\$ -		- 1304					
									\$ 58.24	\$ 75,9	49.71	\$ 58.24				



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INAL	ALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountains)			Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	
Item Desc	escription	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials

V::C02-2 S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and Total structure count: 720 Ea \$ 41,935.42 \$ 58.24 \$ 994.35 \$ 1,052.60 \$ 715,934.43 \$ S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification

Cum amidae in atallatian			700	20	0.05	r r	107.40	ф 44.00	Φ.	20.004.57	700 ¢	44.00
Supervise installation	Supervisory	each	720	29	0.25	Þ	167.19	\$ 41.80	Ф	30,094.57	720 \$	41.80
Placement survey	Foundation Survey (\$250/h)	each	720	18	0.05	\$	328.91	\$ 16.45	\$	11,840.85	720 \$	16.45
		each	720			\$	-	\$ -	\$	-	720 \$	=
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		each	720			\$	-	\$ -	\$		720 \$	-
								\$ 58.24	\$	41,935.42	\$	58.24





N	NALCOR 350 kV HVdc Line Construct	tion Front 2 (Long Range Mounta	<mark>n</mark> s)				Crew Cost					T	otal Unit Cost		
nt		, , ,		Units		Hours per						M	lanhours and		
D	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
,	Grillage Foundations														
	S11-C3 Assembly and Installation of Founda	ation Times A4 4 (400 kBs) as not Div	Total atrus	tura aquati	15	EA			\$ 150,729.3	2	\$ 10,048.62 \$	278.62 \$	10,327.24	•	4,179
S S	S1-C3 Assembly and Installation of Foundation	on Types A1-1 (100 kPa) as per Dw on Types A1-1 (100 kPa) as per Dwg 50	5573-4622-42	DD-0084 for Tow					J 150,729.	13	ş 10,046.02 ş	270.02 \$	10,321.24	Ą	4,173
ę	Steel Weight (lb) =	4718 Granular (m3) =	3	Excavation (m3) =	153	Backfill (m3) =	151								
_	Haul	Foundation Haul	each	15			\$ 441.04	\$ 867.00	\$ 13,005.0	0 15	\$ 867.00				
_	Excavate	Found Excavation	each	15				\$ 3,092.67							
	Assemble and Install	Grillage Installation	each	15		_		\$ 3,105.27							
В	Backfill & Compact	Backfill and Compact	each	15	21	2.70		\$ 2,593.76							
С	Cleanup	Site Cleanup	each	15	22	2.00		\$ 389.92	\$ 5,848.8						
	- 1		each	15					\$ -	1-					
				1	!		*	\$ 10,048.62			\$ 10,048.62				
s															
S	S1-C4 Assembly and Installation of Founda	ation Types A2-1 (100 kPa) as per Dw	Total struc	ture count:	3	EA		, .	\$ 42,603.	52	\$ 14,201.17 \$	468.98 \$	14,670.15	\$	1,4
S	S1-C4 Assembly and Installation of Foundation	on Types A2-1 (100 kPa) as per Dwg 50	5573-4622-42	DD-0084 for Tow	ver Types A2.										
_	24 1 1 1 1 / - 1 - 1 - 1 / 1 1 1 1 1 1 1 1 1	0050	4	- · · · · · · · · · · · · · · · · · · ·	000	D 1511 (0)	004								
_	Steel Weight (lb) = Haul	9259 Granular (m3) =	4 each	Excavation (m3) =	209 17	Backfill (m3) = 3.86	\$ 441.04	\$ 1,701.59	\$ 5,104.7	7 3	\$ 1,701.59				
_		Foundation Haul		3		3.32	•	\$ 3,796.45							
	Excavate nstall	Found Excavation	each	Ŭ	10										
_		Grillage Installation	each	3											
I P	Backfill & Compact Cleanup	Backfill and Compact	each	3							\$ 3,184.00				
		Site Cleanup	each			2.00	\$ 194. 96 \$ -	\$ 389.92 \$ -	·						
_	Sieariup		oooh				D -	Φ -							
_	ыеапир		each	3			r r	¢	ሰ	2	r				
_	Біеапир		each	3				\$ - \$	·						
_	Бієапир						\$ -	\$ - \$ - \$ 14,201.17	\$ -	3					
s	S1-C5 Assembly and Installation of Founda	ation Types A3-1 (100 kPa) as per Dw on Types A3-1 (100 kPa) as per Dwg 50	each each Total struc	3 3	1	EA	\$ -	\$ - \$ 14,201.17	\$ -	3	\$ -	377.13 \$	12,381.04	\$	37
<u>S</u> s	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio	on Types A3-1 (100 kPa) as per Dwg 50	each each 7 Total struc 5573-4622-42	3 3 ture count: DD-0084 for Tow	1 ver Types A3.	<u> </u>	\$ -	\$ - \$ 14,201.17	\$ 42,603.5	3	\$ - \$ 14,201.17	377.13 \$	12,381.04	\$	3
<u>S</u> S	S1-C5 Assembly and Installation of Foundation S1-C5 Assembly and Installation of Foundation Steel Weight (lb) =	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) =	each each 7 Total struc 5573-4622-42	3 3	1 ver Types A3.	Backfill (m3) =	179	\$ - \$ 14,201.17	\$ - \$ 42,603.8 \$ 12,003.8	3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ - \$ 14,201.17 \$ 12,003.92 \$	377.13 \$	12,381.04	\$	3
<u>S</u> S S H	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) =	on Types A3-1 (100 kPa) as per Dwg 50 6724	each each 7 Total struc 5573-4622-42 4 each	3 3 ture count: DD-0084 for Tow	1 ver Types A3. 183	Backfill (m3) = 2.80	179 \$ 441.04	\$ - \$ 14,201.17 \$ 1,235.68	\$ - \$ 42,603.8 12,003. 8 \$ 1,235.6	3 52 02	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68	377.13 \$	12,381.04	\$	3
S S S H E	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) = Haul Excavate	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) = Foundation Haul Found Excavation	each each 7 Total struc 5573-4622-42 4 each each	3 3 ture count: DD-0084 for Tow	1 ver Types A3. 183 17 19	Backfill (m3) = 2.80 3.03	179 \$ 441.04 \$ 1,143.76	\$ - \$ 14,201.17 \$ 1,235.68 \$ 3,469.33	\$ \$ 42,603.8 \$ 12,003.8 \$ 1,235.6 \$ 3,469.3	3 52 02 08 1 33 1	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68 \$ 3,469.33	377.13 \$	12,381.04	\$	3
	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) = Haul Excavate Install	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each g Total struc 5573-4622-42 4 each each each	3 3 ture count: DD-0084 for Tow	1 ver Types A3. 183 17 19 20	Backfill (m3) = 2.80 3.03 3.99	179 \$ 441.04 \$ 1,143.76 \$ 1,002.72	\$ 14,201.17 \$ 1,235.68 \$ 3,469.33 \$ 3,999.35	\$ 42,603.5 \$ 12,003.5 \$ 1,235.6 \$ 3,469.5 \$ 3,999.5	3 3 2 2 2 2 3 3 1 3 1 5 5 1	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68 \$ 3,469.33 \$ 3,999.35	377.13 \$	12,381.04	\$	3
	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) = Haul Excavate Install Backfill & Compact	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Grown Total struc 5573-4622-42 4 each each each each each	3 3 ture count: DD-0084 for Tow	1 ver Types A3. 183 17 19 20 21	Backfill (m3) = 2.80 3.03 3.99 3.03	179 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65	\$ 42,603.5 \$ 12,003.5 \$ 1,235.6 \$ 3,469.5 \$ 3,999.5 \$ 2,909.6	3 3 22 22 28 88 1 33 1 55 1 55 1	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65	377.13 \$	12,381.04	\$	3
	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) = Haul Excavate Install	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each g Total struc 5573-4622-42 4 each each each each each each	3 3 ture count: DD-0084 for Tow	1 ver Types A3. 183 17 19 20	Backfill (m3) = 2.80 3.03 3.99	179 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65 \$ 389.92	\$ 42,603.5 \$ 12,003.5 \$ 1,235.6 \$ 3,469.5 \$ 3,999.5 \$ 2,909.6 \$ 389.5	3 3 22 2 2 3 3 1 3 3 1 5 5 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 1 1	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65 \$ 389.92	377.13 \$	12,381.04	\$	3
	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) = Haul Excavate Install Backfill & Compact	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each g Total struc 5573-4622-42 4 each each each each each each each	3 3 ture count: DD-0084 for Tow	1 ver Types A3. 183 17 19 20 21 22	Backfill (m3) = 2.80 3.03 3.99 3.03	\$ - 179 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ 2	\$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65 \$ 389.92 \$ -	\$ 42,603.5 \$ 12,003.5 \$ 1,235.6 \$ 3,469.3 \$ 2,909.6 \$ 389.5 \$ -	3 3 22 2 2 3 3 3 1 3 3 1 5 5 1 5 5 1 2 2 1 1 1 1 1 1 1 1 1 1 1	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65 \$ 389.92 \$ -	377.13 \$	12,381.04	\$	3
<u>C </u>	S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Foundatio Steel Weight (lb) = Haul Excavate Install Backfill & Compact	on Types A3-1 (100 kPa) as per Dwg 50 6724 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each g Total struc 5573-4622-42 4 each each each each each each each each	3 3 3 ture count: DD-0084 for Tow Excavation (m3) = 1 1 1 1 1	1 ver Types A3. 183 17 19 20 21 22	Backfill (m3) = 2.80 3.03 3.99 3.03	\$ - 179 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	\$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65 \$ 389.92 \$ -	\$ 42,603.5 \$ 12,003.5 \$ 1,235.6 \$ 3,469.3 \$ 3,999.5 \$ 2,909.6 \$ 389.5 \$ -	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	\$ - \$ 14,201.17 \$ 12,003.92 \$ \$ 1,235.68 \$ 3,469.33 \$ 3,999.35 \$ 2,909.65 \$ 389.92 \$ - \$ -	377.13 \$	12,381.04	\$	3
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Valard Construction LP

	NALCOR 350 kV HVdc Line Construction	on Front 2 (L	ong Range Mountain	ıs)				Crew Cost						Total Unit Cost		
Payment		,		Únit	ts		Hours per							Manhours and		
Item	Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::C07	S1-C7 Assembly and Installation of Foundati	ion Types B1-1	1 (100 kPa) as per Dwg	Total structure	e count:	1	EA			\$ 15,855.6 ²	\$	15,855.61	\$ 538.83	\$ 16,394.43	\$	538.82
	S1-C7 Assembly and Installation of Foundation	Types B1-1 (1	00 kPa) as per Dwg 505	573-4622-42DD-	-0084 for Tow	er Types B1.										
	Steel Weight (lb) =	11155	Granular (m3) =	5 Exc	cavation (m3) =	228	Backfill (m3) =	223								
	Haul	11100	Foundation Haul	each	1	17	4.65	\$ 441.04	\$ 2,050.01	\$ 2,050.0	1 1 \$	2,050.01				
	Excavate		Foundation Flaur	each	1	19	3.54		\$ 4,047.20	\$ 4,047.20		4,047.20				
	Install		Grillage Installation	each	1	20	5.96	· · · · · · · · · · · · · · · · · · ·	\$ 5,974.17	\$ 5,974.17		5,974.17				
	Backfill & Compact		Backfill and Compact	each	1	21	3.54	\$ 959.25	\$ 3,394.30	\$ 3,394.30		3,394.30				
	Cleanup		Site Cleanup	each	1	22	2.00		\$ 389.92	\$ 389.92						
	·			each	1			\$ -	\$ -	\$ -	1 \$	-				
				each	1			\$ -	\$ -	\$ -	1 \$	-				
				each	1			\$ -	\$ -	\$ -	1 \$	-				
									\$ 15,855.61	\$ 1 5,855.6 ²	1 \$	15,855.61				
															_	
V::C08	S1-C8 Assembly and Installation of Foundati	ion Types B2-1	1 (100 kPa) as per Dwg	Total structure	e count:	92	EA			\$ 1,571,829.03	\$	17,085.10	\$ 446.7	\$ 17,531.88	\$	41,103.90
	S1-C8 Assembly and Installation of Foundation	Types B2-1 (1	00 kPa) as per Dwg 505	573-4622-42DD-	-0003 for Tow	er Types B2.										
	Steel Weight (lb) =	8424	Granular (m3) =	4 Exc	ti (0)	355	Backfill (m3) =	350								
	Haul	0424	Foundation Haul	each	cavation (m3) =	17	3.51	\$ 441.04	\$ 1,548.04	\$ 142,419.7	92 \$	1,548.04				
	Excavate		Foundation Haul	each	92	19	4.94	\$ 1.143.76	\$ 5,650.95			5,650.95				
	Install		Grillage Installation	each	92	20	4.74	\$ 1,002.72				4,756.86				
	Backfill & Compact		Backfill and Compact	each	92	21	4.94	\$ 959.25		\$ 436,018.25		4,739.33				
	Cleanup		Site Cleanup	each	92	22	2.00	\$ 194.96				389.92				
	- Croamap		one ordinap	each	92		2.00		\$ -	\$ -	92 \$	-				
				each	92			\$ -		\$ -	92 \$	-				
				each	92			\$ -	\$ -	\$ -		-				
								\$ -		*	92 \$					
								\$ -	\$ -	\$ -	92 \$	=				
V::C09	S1-C9 Assembly and Installation of Foundati	ion Types A1-1	1A (250 kPa) as per	each Total structure	92 e count:	85	EA	\$	\$ - \$ 17,085.10	\$ -	92 \$	=	\$ 126.9	7,836.38	. \$	10,786.72
V::C09	S1-C9 Assembly and Installation of Foundation S1-C9 Assembly and Installation of Foundation	ion Types A1-1 Types A1-1A (1A (250 kPa) as per (250 kPa) as per Dwg 50	each Total structure	92 e count:		EA	\$	\$ - \$ 17,085.10	\$ - \$ 1,571,829.03	92 \$	17,085.10	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation	Types A1-1A ((250 kPa) as per Dwg 50	each Total structure 5573-4622-42DD	92 e count: D-0084 for To	wer Types A1.	4	\$	\$ - \$ 17,085.10	\$ - \$ 1,571,829.03	92 \$	17,085.10	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) =	ion Types A1- 1 Types A1-1A (2866	(250 kPa) as per Dwg 50 Granular (m3) =	Total structure 5573-4622-42DE 1 Exc	92 e count: D-0084 for Total	wer Types A1. 103	Backfill (m3) =	102	\$ - \$ 17,085.10	\$ 1,571,829.03 \$ 655,305.38	92 \$ 3 \$	- 17,085.10 7,709.48	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) =	Total structure 5573-4622-42DE 1 Exc	92 e count: D-0084 for Total cavation (m3) = 85	wer Types A1. 103 17	Backfill (m3) = 1.19	102	\$ - \$ 17,085.10 \$ 526.68	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98	92 \$ 3 \$ \$ 3 \$	- 17,085.10 7,709.48 526.68	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation	Total structure 5573-4622-42DE 1 Exc each each	92 e count: D-0084 for Too cavation (m3) = 85 85	103 17 19	Backfill (m3) = 1.19 2.15	\$ - 102 \$ 441.04 \$ 1,143.76	\$ 17,085.10 \$ 526.68 \$ 2,454.43	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34	92 \$ 3 \$ 3 \$ 3 \$ 4 85 \$	7,709.48 526.68 2,454.43	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each Total structure 5573-4622-42DE 1 Exc each each each each	92 D-0084 for Torcavation (m3) = 85 85	103 17 19 20	Backfill (m3) = 1.19 2.15 2.27	\$ 441.04 \$ 1,143.76 \$ 1,002.72	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48	92 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	526.68 2,454.43 2,279.97	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DL 1 Exc each each each each each	92 D-0084 for Torcavation (m3) = 85 85 85	103 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30	92 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	526.68 2,454.43 2,279.97 2,058.47	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each Total structure 5573-4622-42DL 1 Exc each each each each each each each	92 D-0084 for Toucavation (m3) = 85 85 85 85	103 17 19 20	Backfill (m3) = 1.19 2.15 2.27	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.3	92 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	526.68 2,454.43 2,279.97	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for Too cavation (m3) = 85 85 85 85 85	103 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.3 \$ 193,797.4 \$ 174,970.30 \$ 33,143.3	92 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	526.68 2,454.43 2,279.97 2,058.47 389.92	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for Toucavation (m3) = 85 85 85 85 85 85	103 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.3	3 85 \$ 3 85 \$ 4 85 \$ 5 85 \$ 1 85 \$ 85 \$ 85 \$	526.68 2,454.43 2,279.97 2,058.47	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for Too cavation (m3) = 85 85 85 85	103 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ -	3 85 \$ 3 85 \$ 4 85 \$ 5 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$	526.68 2,454.43 2,279.97 2,058.47 389.92	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Types A1-1A ((250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for Toucavation (m3) = 85 85 85 85 85 85	103 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.36 \$ 33,143.37 \$ -	3 85 \$ 3 85 \$ 4 85 \$ 5 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$	526.68 2,454.43 2,279.97 2,058.47 389.92	\$ 126.9	\$ 7,836.38	\$	10,786.72
	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	2866	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for Toucavation (m3) = 85 85 85 85 85 85 85	103 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ -	3 85 \$ 4 85 \$ 5 85 \$ 1 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$	526.68 2,454.43 2,279.97 2,058.47 389.92				10,786.72 3,951.38
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact	2866 2860 ation Types A2	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each Total structure 5573-4622-42DL 1 Exc each each each each each each each eac	92 D-0084 for Torcavation (m3) = 85 85 85 85 85 85 85	wer Types A1. 103 17 19 20 21 22	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00	\$ 102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.45 \$ 174,970.30 \$ 33,143.31 \$ - \$ - \$ 655,305.38	3 85 \$ 4 85 \$ 5 85 \$ 1 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$	526.68 2,454.43 2,279.97 2,058.47 389.92 - - 7,709.48				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundation	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5	each Total structure 5573-4622-42DL 1 Exc each each each each each each each eac	92 D-0084 for Torcavation (m3) = 85 85 85 85 85 85 85	103 17 19 20 21 22 16 ower Types A2.	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.45 \$ 174,970.30 \$ 33,143.31 \$ - \$ - \$ 655,305.38	3 85 \$ 4 85 \$ 5 85 \$ 1 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$ 8 85 \$	526.68 2,454.43 2,279.97 2,058.47 389.92 - - 7,709.48				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) =	2866 2860 ation Types A2	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each Total structure 5573-4622-42DL 1 Exc each each each each each each each eac	92 D-0084 for Total State Stat	103 17 19 20 21 22 16 ower Types A2.	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) =	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ -	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.49 \$ 174,970.30 \$ 33,143.33 \$ - \$ 655,305.38 \$ 175,636.94	92 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	526.68 2,454.43 2,279.97 2,058.47 389.92 - - 7,709.48				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for To cavation (m3) = 85 85 85 85 85 85 00-0084 for To cavation (m3) =	103 17 19 20 21 22 22 16 ower Types A2.	Backfill (m3) = 1,19 2,15 2,27 2,15 2,00 EA Backfill (m3) = 3,80	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ -	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.36 \$ 33,143.37 \$ - \$ 655,305.38 \$ 175,636.97	92 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,085.10 7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 - - - 7,709.48 10,977.31				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 D-0084 for To cavation (m3) =	103 17 19 20 21 22 22 16 ower Types A2. 143 17	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59	102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ -	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.49 \$ 174,970.30 \$ 33,143.33 \$ - \$ 655,305.38 \$ 175,636.96 \$ 26,790.66 \$ 47,460.20	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,085.10 7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 - - - 7,709.48 10,977.31				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each Total structure 5573-4622-42DE 1 Exc each each each each each each each eac	92 e count: D-0084 for Toucavation (m3) = 85 85 85 85 85 85 85 85 85 8	103 17 19 20 21 22 16 ower Types A2. 143 17 19 20	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45	102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ 141 \$ 441.04 \$ 1,143.76 \$ 1,002.72	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26 \$ 3,458.97	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ - \$ 655,305.38 \$ 175,636.96 \$ 26,790.66 \$ 47,460.20 \$ 55,343.54	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,085.10 7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 - - - - 7,709.48 10,977.31				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DE 1 Exc each each each each each each each each cach each e	92 e count: D-0084 for Toucavation (m3) = 85 85 85 85 85 85 85 85 85 85 85 85 85	103 17 19 20 21 22 16 20 21 22 143 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45 2.59	102 \$ 441.04 \$ 1,143.76 \$ 1959.25 \$ 194.96 \$ - \$ - \$ 141 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 17,085.10 \$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26 \$ 3,458.97 \$ 2,487.74	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ - \$ - \$ 655,305.38 \$ 175,636.96 \$ 47,460.20 \$ 55,343.54 \$ 39,803.86	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	- 17,085.10 7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 - - - 7,709.48 10,977.31 1,674.41 2,966.26 3,458.97 2,487.74				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each Total structure 5573-4622-42DE 1 Exc each each each each each each each each each each each	92 e count: D-0084 for Tour cavation (m3) = 85 85 85 85 85 85 85 85 85 85 85 85 85	103 17 19 20 21 22 16 ower Types A2. 143 17 19 20	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45	102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 1,674.41 \$ 2,966.26 \$ 3,458.97 \$ 2,989.92	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ - \$ 655,305.38 \$ 175,636.96 \$ 47,460.20 \$ 55,343.54 \$ 39,803.82 \$ 6,238.74	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 7,709.48 10,977.31 1,674.41 2,966.26 3,458.97 2,487.74 389.92				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DI 1 Exc each each each each each each each each each each each each	92 P count: D-0084 for To cavation (m3) = 85 85 85 85 85 85 85 85 85 86 85 86 85 86 85 86 86 86 86 86 86 86 86 86 86 86 86 86	103 17 19 20 21 22 16 20 21 22 143 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45 2.59	102 \$ 441.04 \$ 1,143.76 \$ 1959.25 \$ 194.96 \$ - \$ - \$ 141 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26 \$ 3,458.97 \$ 2,487.74 \$ 389.92 \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ - \$ - \$ 655,305.38 \$ 175,636.96 \$ 47,460.20 \$ 55,343.54 \$ 39,803.87 \$ 6,238.74	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 7,709.48 10,977.31 1,674.41 2,966.26 3,458.97 2,487.74 389.92 -				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DI 1 Exc each each each each each each each eac	92 P count: D-0084 for Too cavation (m3) = 85 85 85 85 85 85 85 85 85 86 85 86 85 86 86 86 86 86 86 86 86 86 86 86 86 86	103 17 19 20 21 22 16 20 21 22 143 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45 2.59	102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26 \$ 3,458.97 \$ 2,487.74 \$ 389.92 \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.36 \$ 33,143.37 \$ \$ 655,305.38 \$ 175,636.97 \$ 26,790.67 \$ 47,460.20 \$ 55,343.54 \$ 39,803.87 \$ 6,238.74	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 7,709.48 10,977.31 1,674.41 2,966.26 3,458.97 2,487.74 389.92				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DI 1 Exc each each each each each each each each each each each each	92 P count: D-0084 for To cavation (m3) = 85 85 85 85 85 85 85 85 85 86 85 86 85 86 85 86 86 86 86 86 86 86 86 86 86 86 86 86	103 17 19 20 21 22 16 20 21 22 143 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45 2.59	102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26 \$ 3,458.97 \$ 2,487.74 \$ 389.92 \$ - \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ 655,305.38 \$ 175,636.94 \$ 26,790.66 \$ 47,460.20 \$ 55,343.54 \$ 39,803.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 7,709.48 10,977.31 1,674.41 2,966.26 3,458.97 2,487.74 389.92				ŕ
V::C10	S1-C9 Assembly and Installation of Foundation Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Founda S1-C10 Assembly and Installation of Foundatio Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	2866 2860 ation Types A2-1A	(250 kPa) as per Dwg 50 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each Total structure 5573-4622-42DI 1 Exc each each each each each each each eac	92 P count: D-0084 for Too cavation (m3) = 85 85 85 85 85 85 85 85 85 86 85 86 85 86 86 86 86 86 86 86 86 86 86 86 86 86	103 17 19 20 21 22 16 20 21 22 143 17 19 20 21	Backfill (m3) = 1.19 2.15 2.27 2.15 2.00 EA Backfill (m3) = 3.80 2.59 3.45 2.59	102 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 526.68 \$ 2,454.43 \$ 2,279.97 \$ 2,058.47 \$ 389.92 \$ - \$ - \$ 7,709.48 \$ 1,674.41 \$ 2,966.26 \$ 3,458.97 \$ 2,487.74 \$ 389.92 \$ -	\$ 1,571,829.03 \$ 655,305.38 \$ 44,767.98 \$ 208,626.34 \$ 193,797.48 \$ 174,970.30 \$ 33,143.33 \$ - \$ 655,305.38 \$ 175,636.94 \$ 26,790.66 \$ 47,460.20 \$ 55,343.54 \$ 39,803.87 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	92 \$ \$ \$ \$ \$ \$ \$ \$ \$	7,709.48 526.68 2,454.43 2,279.97 2,058.47 389.92 7,709.48 10,977.31 1,674.41 2,966.26 3,458.97 2,487.74 389.92				



NAL(COR 350 kV HVdc Line Construction	on Front 2 (Lo	ong Range Mountair	<mark>า</mark> ร)				Crew Cost						Total Unit Cost		
		•		Ú	nits		Hours per							Manhours and		
Descri	cription				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
															_	
	C11 Assembly and Installation of Founda			Total structu		6	EA		\$	50,637.26	\$	8,439.54	\$ 168.5 ₀	\$ 8,608.09	9 \$	1,011
S1-C1	C11 Assembly and Installation of Foundatio	on Types A3-1A	(250 kPa) as per Dwg 5	05573-4622-42	2DD-0084 for 10	ower Types A3.										
Steel \	l Weight (lb) =	3483	Granular (m3) =	2 E	excavation (m3) =	118	Backfill (m3) =	116								
Haul		0400	Foundation Haul	each	6	17	_ ` /		\$ 640.12	3,840.73	6 \$	640.12				
Excav			Found Excavation	each	6	19	2.31		\$ 2,640.17							
Install			Grillage Installation	each	6	20	2.55		\$ 2,555.07	15,330.42						
	fill & Compact		Backfill and Compact	each	6	21	2.31		\$ 2,214.26							
Clean			Site Cleanup	each	6	22	2.00	\$ 194.96		2,339.53						
	1			each	6				\$ - 9		6 \$					
				each	6			\$ -	\$ - 9		6 \$					
				each	6			\$ -	\$ - 9	-	6 \$	-				
							- W		\$ 8,439.54	5 0,637.26		8,439.54				
S1-C1	12 Assembly and Installation of Founda	ation Types A4	-1A (250 kPa) as per	Total structu	re count:	32	EA			330,103.81	\$	10,315.74	\$ 246.9	\$ 10,562.71	1 \$	7,9
	C12 Assembly and Installation of Foundation			05573-4622-42	2DD-0084 for To	ower Types A4.	_									
	I Weight (Ib) =	5512	Granular (m3) =		xcavation (m3) =	143	Backfill (m3) =	141		22.111.21	11-					
Haul			Foundation Haul	each	32	17	2.30	\$ 441.04				1,012.85				
Excav			Found Excavation	each	32	19	2.59	\$ 1,143.76	7 - 7 - 7	01,020110						
Install			Grillage Installation	each	32	20	3.45	\$ 1,002.72								
	fill & Compact		Backfill and Compact	each	32	21	2.59		\$ 2,487.74	79,607.64		2,487.74				
101	nup		Site Cleanup	each	32 32	22	2.00	\$ 194.96		12,477.48		389.92				
Clean	·							5 -	\$ - 9	-	32 \$	-				
Clean				each				Φ.	Φ		20 0					
Clean				each	32			\$ -	\$ - 9		32 \$	-				
Clean								\$ -	\$ - \$		32 \$	-				
Clean				each	32			\$ -			32 \$					
S1-C1	213 Assembly and Installation of Founda	ation Types B1	-1A (250 kPa) as per	each each Total structu	32 32 re count:	3	EA	\$ -	\$ - \$	330,103.81	32 \$	-	\$ 264.4	2 \$ 11,302.87	7 \$	79
S1-C1	C13 Assembly and Installation of Founda	ation Types B1	- 1A (250 kPa) as per . (250 kPa) as per Dwg 5	each each Total structu	32 32 re count:	3		\$ -	\$ - \$ \$ 10,315.74 \$	330,103.81	32 \$	10,315.74	\$ 264.4	2 \$ 11,302.87	7 \$	7:
S1-C1	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio	on Types B1-1A	(250 kPa) as per Dwg 5	each each Total structu 05573-4622-42	32 32 re count:	3 ower Types B1.		\$ -	\$ - \$ \$ 10,315.74 \$	330,103.81	32 \$	10,315.74	\$ 264.4	2 \$ 11,302.87	7 \$	7
S1-C1 Steel 1	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio	ation Types B1- on Types B1-1A 5754	- 1A (250 kPa) as per . (250 kPa) as per Dwg 5 Granular (m3) =	each each Total structu 05573-4622-42 2 E	32 32 re count: 2DD-0084 for To	3 ower Types B1.	Backfill (m3) =	\$ -	\$ 10,315.74 \$	330,103.81 33,115.34	32 \$	10,315.74 11,038.45	\$ 264.4	2 \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio	on Types B1-1A	Granular (m3) =	each each Total structu (05573-4622-42 2 E each	32 32 re count: 2DD-0084 for To excavation (m3) =	3 ower Types B1. 149	Backfill (m3) = 3.40	\$ 441.04	\$ 10,315.74 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	330,103.81 33,115.34 4,495.37	32 \$ \$ \$	10,315.74 11,038.45	\$ 264.4	2 \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel Haul Excav	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) =	on Types B1-1A	. (250 kPa) as per Dwg 5 Granular (m3) =	each each Total structu (05573-4622-42 2 E each each each	32 32 re count: 2DD-0084 for To	3 ower Types B1. 149 17 19	Backfill (m3) = 3.40 2.65	\$ 441.04 \$ 1,143.76	\$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$	330,103.81 33,115.34 4,495.37 9,109.30	32 \$ \$ \$ \$ 3 \$ 3 \$	11,038.45 11,498.46 3,036.43	\$ 264.4	2 \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel Haul Excav	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) =	on Types B1-1A	Granular (m3) =	each each Total structu 05573-4622-42 2 E each each each each	32 32 re count: 2DD-0084 for To excavation (m3) =	3 ower Types B1. 149 17 19 20	Backfill (m3) = 3.40 2.65 3.56	\$ 441.04 \$ 1,143.76 \$ 1,002.72	\$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14	32 \$ \$ \$ 3 \$ 3 \$ 3 \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05	\$ 264.4	<mark>? \$ 11,302.8</mark> 7	7 \$	7
S1-C1 S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = avate ctill & Compact	on Types B1-1A	(250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation	each each each	32 32 re count: 2DD-0084 for To excavation (m3) =	3 ower Types B1. 149 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77	32 \$ \$ \$ 3 \$ 3 \$ 3 \$ 3 \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05 2,546.59	\$ 264.4	. \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel Haul Excav	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = avate ctill & Compact	on Types B1-1A	. (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total structu 05573-4622-42 2 each each each each each each each	32 32 32 32 32 32 34 34 34 34 34	3 ower Types B1. 149 17 19 20	Backfill (m3) = 3.40 2.65 3.56	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05 2,546.59 389.92	\$ 264.4	. \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = avate ctill & Compact	on Types B1-1A	. (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 05573-4622-42 2 each each each each each each each each	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3	3 ower Types B1. 149 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 3	1,498.46 3,036.43 3,567.05 2,546.59 389.92	\$ 264.4	. \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = avate ctill & Compact	on Types B1-1A	. (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 32 32 32 34 34 34 34 34	3 ower Types B1. 149 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 10,315.74 \$ \$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$	1,498.46 3,036.43 3,567.05 2,546.59 389.92	\$ 264.4	2 \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = avate ctill & Compact	on Types B1-1A	. (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 05573-4622-42 2 each each each each each each each each	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3	3 ower Types B1. 149 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$	1,498.46 3,036.43 3,567.05 2,546.59 389.92	\$ 264.4	2 \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = avate ctill & Compact	on Types B1-1A	. (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3	3 ower Types B1. 149 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 10,315.74 \$ \$ 10,315.74 \$ \$ \$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$	1,498.46 3,036.43 3,567.05 2,546.59 389.92	\$ 264.4.	2 \$ 11,302.87	7 \$	7
S1-C1 S1-C1 Steel Haul Excav Install Backfi Clean	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (lb) = Invate Ill Cfill & Compact Inup	5754 5754	. (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 32 32 32 34 33 34 34 35 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	3 ower Types B1. 149 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ - \$ \$ - \$ \$ 11,038.45 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3	1,498.46 3,036.43 3,567.05 2,546.59 389.92 - - 11,038.45				7
S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi \(\text{Clean} \)	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = Invate Ill It (Ill)	5754 5754 ation Types B2	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total structu 05573-4622-42 2 E each each each each each each each each	32 32 32 re count:	3 ower Types B1. 149 17 19 20 21 22	Backfill (m3) = 3.40 2.65 3.56 2.65	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$	1,498.46 3,036.43 3,567.05 2,546.59 389.92				7
S1-C1 Steel \(\text{Haul} \) Excav \(\text{Install} \) Backfi \(\text{Clean} \)	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (lb) = Invate Ill Cfill & Compact Inup	5754 5754 ation Types B2	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total structu 05573-4622-42 2 E each each each each each each each each	32 32 32 re count:	3 ower Types B1. 149 17 19 20 21 22	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ - \$ \$ - \$ \$ 11,038.45 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3	1,498.46 3,036.43 3,567.05 2,546.59 389.92 - - 11,038.45				7
S1-C1 Steel \(\text{Haul} \) Excav Install Backfi Clean S1-C1	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = Example Assembly and Installation of Foundatio C14 Assembly and Installation of Foundatio	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 2-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5	each each Total structu 05573-4622-42 2 E each each each each each each each each	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3 3 3 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2.	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ - \$ \$ - \$ \$ 11,038.45 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3	1,498.46 3,036.43 3,567.05 2,546.59 389.92 - - 11,038.45				7
S1-C1 Steel \(\text{Image: Backfit Cleans} \) S1-C1 S1-C1 S1-C1 Steel \(\text{Steel } \text{Steel } \text{Steel } \)	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = Evate E	5754 5754 ation Types B2	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup P-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) =	each each Total structu 05573-4622-42 2 E each each each each each each each each	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3 3 3 4 2DD-0003 for To	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) =	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ -	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$ 11,038.45 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 - - 33,115.34	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ \$ \$ \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05 2,546.59 389.92 11,038.45 17,526.14				7
S1-C1 Steel \(\text{Install} \) Backfir Clean S1-C1 S1-C1 Steel \(\text{Install} \) Haul	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = Evaluate Ev	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup C-1A (250 kPa) as per C(250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3 3 3 4 2DD-0003 for To	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ -	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ \$ - \$ \$ - \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 5	1,498.46 3,036.43 3,567.05 2,546.59 389.92 - - 11,038.45				7
S1-C1 Steel \(\text{Install} \) Backfill Clean S1-C1 S1-C1 S1-C1 Steel \(\text{Install} \) Haul Excav	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = Invate III Cfill & Compact Inup C14 Assembly and Installation of Founda C14 Assembly and Installation of Foundatio I Weight (Ib) =	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 1-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 re count: 2DD-0084 for To 2DD-0084 for To 3 3 3 3 3 3 3 3 4 2DD-0003 for To 2DD-0003 for To	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ - \$ 1,43.76	\$ 1,498.46 \$ \$ 3,036.43 \$ \$ 3,567.05 \$ \$ 2,546.59 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$ 5,650.95 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 - - - 33,115.34	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 5 \$ 0 \$ 0 \$	1,498.46 3,036.43 3,567.05 2,546.59 389.92 - - 11,038.45				7
S1-C1 Steel \(\text{Install} \) Backfill Clean S1-C1 S1-C1 S1-C1 Steel \(\text{Install} \) Haul Excav	C13 Assembly and Installation of Founda C13 Assembly and Installation of Foundatio I Weight (Ib) = Invate III CIII & Compact Inup C14 Assembly and Installation of Founda C14 Assembly and Installation of Foundatio I Weight (Ib) =	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 2-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3 3 4 2DD-0003 for To excavation (m3) = 0 0	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19 20	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94 4.74	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 1,002.72	\$ 1,498.46 \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ - \$ \$ - \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$ 5,650.95 \$ \$ 4,756.86 \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 - - - 33,115.34	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 5 5 6 7 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	1,498.46 3,036.43 3,567.05 2,546.59 389.92 - - 11,038.45				7
S1-C1 Steel V Haul Excav Install Backfi Clean S1-C1 Steel V Haul Excav	C13 Assembly and Installation of Foundation of Assembly and Installation of Foundation	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 1-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 05573-4622-42 each each each each each each each eac	32 32 32 re count: 2DD-0084 for To 2DD-0084 for To 3 3 3 3 3 3 3 3 4 2DD-0003 for To 2DD-0003 for To	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19 20 21	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,002.72 \$ 959.25	\$ 1,498.46 \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ - \$ \$ - \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$ 5,650.95 \$ \$ 4,756.86 \$ \$ 4,739.33 \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 - - - - - - - - - - - - -	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 5 6 6 7 7 8 7 8 8 7 8 8 8 8 8 9 9 9 9 9 9 9 9	1,498.46 3,036.43 3,567.05 2,546.59 389.92 				7
S1-C1 Steel \(\text{Install} \) Backfill Clean S1-C1 S1-C1 S1-C1 Steel \(\text{Install} \) Haul Excav	C13 Assembly and Installation of Foundation of Assembly and Installation of Foundation	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 2-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total structu 05573-4622-42 2 Eeach each each each each each each each	32 32 32 re count: 2DD-0084 for To excavation (m3) = 3 3 3 3 3 3 3 4 2DD-0003 for To excavation (m3) = 0 0	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19 20	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94 4.74	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96	\$ 1,498.46 \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ 389.92 \$ - \$ \$ - \$ \$ 11,038.45 \$ \$ 1,989.08 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 33,115.34	32 \$ \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05 2,546.59 389.92 11,038.45 17,526.14				7
S1-C1 Steel V Haul Excav Install Backfi Clean S1-C1 Steel V Haul Excav	C13 Assembly and Installation of Foundation of Assembly and Installation of Foundation	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 1-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 005573-4622-42 2 Eeach each each each each each each each	32 32 32 32 32 32 32 33 34 35 36 37 38 38 39 30 30 30 31 31 32 32 33 34 35 36 37 38 38 39 30 30 30 30 30 30 30 30 30 30	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19 20 21 22	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$ 5,650.95 \$ \$ 4,756.86 \$ \$ 4,739.33 \$ 389.92 \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 33,115.34	32 \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05 2,546.59 389.92 11,038.45 17,526.14				7
S1-C1 Steel V Haul Excav Install Backfi Clean S1-C1 Steel V Haul Excav	C13 Assembly and Installation of Foundation of Assembly and Installation of Foundation	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 1-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 05573-4622-42 2 each each each each each each each each	32 32 32 32 32 32 32 33 34 35 36 37 38 38 39 30 30 30 30 30 30 30 30 30 30	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19 20 21 22	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ -	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$ 5,650.95 \$ \$ 4,756.86 \$ \$ 4,739.33 \$ 389.92 \$ \$ - \$ \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76	32 \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 3	1,498.46 3,036.43 3,567.05 2,546.59 389.92 11,038.45 17,526.14				7
S1-C1 Steel V Haul Excav Install Backfi Clean S1-C1 Steel V Haul Excav	C13 Assembly and Installation of Foundation of Assembly and Installation of Foundation	5754 5754 ation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 1-1A (250 kPa) as per 1 (250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total structu 005573-4622-42 2 Eeach each each each each each each each	32 32 32 32 32 32 32 33 34 35 36 37 38 38 39 30 30 30 30 30 30 30 30 30 30	3 ower Types B1. 149 17 19 20 21 22 0 ower Types B2. 355 17 19 20 21 22	Backfill (m3) = 3.40 2.65 3.56 2.65 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,002.72 \$ 959.25 \$ 194.96 \$ -	\$ 1,498.46 \$ \$ 3,036.43 \$ 3,567.05 \$ 2,546.59 \$ \$ 389.92 \$ \$ - \$ \$ \$ 11,038.45 \$ \$ 1,989.08 \$ \$ 5,650.95 \$ \$ 4,756.86 \$ \$ 4,739.33 \$ 389.92 \$ \$ - \$ \$	330,103.81 33,115.34 4,495.37 9,109.30 10,701.14 7,639.77 1,169.76 33,115.34	32 \$ \$ \$ \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$ 33 \$	10,315.74 11,038.45 1,498.46 3,036.43 3,567.05 2,546.59 389.92 11,038.45 17,526.14				7



	nstruction Front 2 (Long	J Kange Mountail					Crew Cost						otal Unit Cost		
Description				Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials M	anhours and Materials	Fotal Materials	
Везоприон				Total	CIEW NO.	unit	riouny ivale	Offit Cost	Cubiotai	Office	Offit Cost	Waterials	Waterials	otal Materials	
S1-C15 Assembly and Installation of	Foundation Types C1-1 (1	100 kPa) as per	Total struc		28	EA		\$	490,968.52	:	\$ 17,534.59 \$	471.41 \$	18,006.00	\$	13,1
S1-C15 Assembly and Installation of Fo	oundation Types C1-1 (100	kPa) as per Dwg 50)5573-4622-4	2DD-0003 for Tow	er Types C1.										
Steel Weight (lb) =	8752	Granular (m3) =	4	Excavation (m3) =	365	Backfill (m3) =	361								
Haul		Foundation Haul	each	28	17	3.65	\$ 441.04 \$	1,608.41 \$	45,035.37	28	1,608.41				
Excavate	F	Found Excavation	each	28	19	5.06	\$ 1,143.76 \$	5,782.97 \$	161,923.09	28					
Install	G	Grillage Installation	each	28	20	4.89	\$ 1,002.72 \$	4,903.25 \$	137,290.95	28					
Backfill & Compact		Backfill and Compact	each	28	21	5.06	\$ 959.25 \$	4,850.05 \$ 389.92 \$	135,801.32	28					
Cleanup	S	Site Cleanup	each each	28	22	2.00	\$ 194.96 \$ \$	- \$	10,917.80	28					
			each	28			\$ - \$	- \$		28					
			each	28			\$ - \$	- \$	_	28					
			ı	- I			\$	17,534.59 \$	490,968.52		17,534.59				
S1-C16 Assembly and Installation of			Total struc		44	EA		\$	877,711.89		19,948.00 \$	577.46 \$	20,525.46	\$	25
S1-C16 Assembly and Installation of Fo	oundation Types C2-1 (100	KPa) as per Dwg 50	J5573-4622-4	-2DD-0003 for Low	er Types C2.										
Steel Weight (lb) =	10252	Granular (m3) =	5	Excavation (m3) =	409	Backfill (m3) =	404								
Haul	F	Foundation Haul	each	44	17	5.27	\$ 441.04 \$	2,324.94 \$	102,297.51	44	\$ 2,324.94				
Excavate	F	Found Excavation	each	44	19	5.55	\$ 1,143.76 \$	6,342.48 \$	279,069.27	44					
Install	G	Grillage Installation	each	44	20	5.56	\$ 1,002.72 \$	5,571.35 \$	245,139.35	44					
		Backfill and Compact	each	44	21	5.55	\$ 959.25 \$		234,049.22	44					
Backfill & Compact				44	22	2.00	\$ 194.96 \$	389.92 \$	17,156.54	44	389.92				
Backfill & Compact Cleanup		Site Cleanup	each												
		Site Cleanup	each	44			\$ - \$	- \$	-	44					
<u> </u>		Site Cleanup	each each	44			\$ - \$ \$ - \$	- \$	-	44	-				
		Site Cleanup	each	44			\$ - \$	- \$ - \$	-		-				
		Site Cleanup	each each	44				- \$	-	44	-				
Cleanup	S		each each each	44 44 44	32	EA	\$ - \$	- \$ - \$	- - 877,711.89	44	5 - 5 - 19,948.00	624.60 \$	21.061.65	s	19
Cleanup S1-C17 Assembly and Installation of	Foundation Types D1-1 (1	100 kPa) as per	each each each	44 44 44 ture count:	32 ver Types D1.	EA	\$ - \$	- \$ - \$ 19,948.00 \$	-	44	5 - 5 - 5 19,948.00	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo	Foundation Types D1-1 (100 oundation Types D1-1 (100	100 kPa) as per 0 kPa) as per Dwg 50	each each each Total struc	ture count:	er Types D1.	a (\$ - \$	- \$ - \$ 19,948.00 \$	- - 877,711.89	44	5 - 5 - 19,948.00	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of F0 Steel Weight (Ib) =	Foundation Types D1-1 (100 oundation Types D1-1 (100 11023	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) =	each each each Total struc 05573-4622-4	44 44 44 44 44 44 44 44 44 44 44 44 44	ver Types D1. 428	Backfill (m3) =	\$ - \$	- \$ - \$ 19,948.00 \$	877,711.89 653,985.60	44	5 - 5 - 5 19,948.00 \$ 20,437.05 \$	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo	Foundation Types D1-1 (100 11023	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) =	each each each Total struc 05573-4622-4 6 each	44 44 44 44 44 44 44 44 44 44 44 44 44	ver Types D1. 428 17	Backfill (m3) = 4.59	\$ - \$ \$ 422 \$ 441.04 \$	- \$ - \$ 19,948.00 \$ \$	653,985.60 64,822.41	44 44 32 32 32	5 - 5 19,948.00 5 20,437.05 \$	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 (100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation	each each each Total struc 05573-4622-4 6 each each	ture count: 2DD-0003 for Tow Excavation (m3) =	428 17 19	Backfill (m3) = 4.59 5.76	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$	- \$ - \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 6,584.19 \$	653,985.60 64,822.41 210,694.07	32 32	5 - 5 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install	Foundation Types D1-1 (100 11023 (F	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each each Total struc 05573-4622-4 6 each each each	ture count: 2DD-0003 for Tow Excavation (m3) = 32 32 32 32	428 17 19 20	Backfill (m3) = 4.59 5.76 5.90	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ 19,948.00 \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$	653,985.60 64,822.41 210,694.07 189,287.17	32 32 32 32	5 - 5 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 5 5,915.22	624.60 \$	21,061.65	\$	19
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S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 G	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622-4 6 each each each each each	ture count: 2DD-0003 for Tow Excavation (m3) = 32 32 32 32	428 17 19 20 21	Backfill (m3) = 4.59 5.76 5.90 5.76	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$	653,985.60 64,822.41 210,694.07 189,287.17 176,704.46	32 32 32 32 32	5 - 5 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 6 5,915.22 6 5,522.01 6 389.92	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 G	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622-4 6 each each each each each each	### 44	428 17 19 20 21	Backfill (m3) = 4.59 5.76 5.90 5.76	\$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ 19,948.00 \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$ 389.92 \$	64,822.41 210,694.07 189,287.17 176,704.46 12,477.48	32 32 32 32 32 32 32 32 32	5 - 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 6 5,915.22 6 5,522.01 6 389.92 6 - 6	624.60 \$	21,061.65	\$	19
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S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 G	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622-4 6 each each each each each each each each	ture count: 2DD-0003 for Tow Excavation (m3) = 32 32 32 32 32 32 32 32 32 3	428 17 19 20 21	Backfill (m3) = 4.59 5.76 5.90 5.76	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 19,948.00 \$ \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$ 389.92 \$ - \$ - \$	64,822.41 210,694.07 189,287.17 176,704.46 12,477.48	32 32 32 32 32 32 32 32 32	5 - 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 6 5,915.22 6 5,522.01 6 389.92 6 - 6	624.60 \$	21,061.65	\$	19
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 (100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each each Total struc 05573-4622-4 6 each each each each each each each each	### ### ##############################	428 17 19 20 21 22	Backfill (m3) = 4.59 5.76 5.90 5.76 2.00	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 19,948.00 \$ \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$ 389.92 \$ - \$ - \$ - \$	64,822.41 210,694.07 189,287.17 176,704.46 12,477.48	32 32 32 32 32 32 32 32 32	5 - 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 7 5,522.01 7 6 389.92 7 6 - 6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		ŕ		
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S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 cm s s s s s s s s s s s s s s s s s s	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 100 kPa) as per 0 kPa) as per Dwg 50	each each each 7otal struc 05573-4622-4 6 each each each each each each each each	### ### ##############################	428 17 19 20 21 22 20 ver Types D2.	Backfill (m3) = 4.59 5.76 5.90 5.76 2.00	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$ 389.92 \$ - \$ - \$ - \$	64,822.41 210,694.07 189,287.17 176,704.46 12,477.48	32 32 32 32 32 32 32 32 32	5 - 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 7 5,522.01 7 6 389.92 7 6 - 6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		ŕ		
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installat	Foundation Types D1-1 (100 undation Types D1-1 (100 11023 cm see the second see the second se	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) =	each each each 7otal struc 05573-4622-4 6 each each each each each each each each	### ##################################	ver Types D1. 428 17 19 20 21 22 20 ver Types D2. 452	Backfill (m3) = 4.59 5.76 5.90 5.76 2.00 EA Backfill (m3) =	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ \$	- \$ 19,948.00 \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$ 389.92 \$ - \$ - \$ 20,437.05 \$	64,822.41 210,694.07 189,287.17 176,704.46 12,477.48 653,985.60	32 32 32 32 32 32 32 32 32	5 - 19,948.00 5 20,437.05 \$ 6 2,025.70 6 6,584.19 6 5,915.22 6 5,522.01 6 389.92 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		ŕ		
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Fo Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	Foundation Types D1-1 (100 11023 (Fig. 100 110	100 kPa) as per 0 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup 100 kPa) as per 0 kPa) as per Dwg 50	each each each 7otal struc 05573-4622-4 6 each each each each each each each each	### ##################################	428 17 19 20 21 22 20 ver Types D2.	Backfill (m3) = 4.59 5.76 5.90 5.76 2.00	\$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 6,584.19 \$ 5,915.22 \$ 5,522.01 \$ 389.92 \$ - \$ - \$ - \$	64,822.41 210,694.07 189,287.17 176,704.46 12,477.48	32 32 32 32 32 32 32 32 32	5 - 19,948.00 5 20,437.05 \$ 5 2,025.70		ŕ		
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	NALCOR 350 kV HVdc Line Constr	ruction Front 2 (Long Range Mou	<mark>ıntain</mark> s)				Crew C	ost						Total Unit Cost		
Payment				Units		Hours per								Manhours and	L	
Item	Description			Total	Crew No.	unit	Hourly Rate	е	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::C19	S1-C19 Assembly and Installation of Fo S1-C19 Assembly and Installation of Foun	oundation Types E1-1 (100 kPa) as pendation Types E1-1 (100 kPa) as per Dv	r Total struc vg 505573-4622-4		20 wer Types E1.	EA			1	\$ 463,559	9.70	\$ 23,177.98	756.68	\$ 23,934.67	\$	15,133.65
	Steel Weight (lb) =	13448 Granular (m3) =	= 7	Excavation (m3) =	480	Backfill (m3) =	473									
	Haul	Foundation Haul	each	20	17	5.60	\$ 4	141.04 \$	2,471.35	\$ 49,42		\$ 2,471.35				
	Excavate	Found Excavation	each	20		6.33	\$ 1,1	143.76 \$	7,244.73			\$ 7,244.73				
	Install	Grillage Installation	each	20				002.72 \$	6,995.98							
	Backfill & Compact	Backfill and Compact	each	20	21	0.00	\$ 9	959.25 \$	6,076.00							
	Cleanup	Site Cleanup	each	20	22	2.00	\$ 1	194.96 \$	389.92	\$ 7,798		\$ 389.92				
			each	20			\$	- \$	-	\$	- 20	\$ -				
			each	20			\$	- \$	-	\$	- 20	\$ -				
			each	20			\$	- \$	-		- 20	\$ -				
								\$	23,177.98	\$ 463,559	9.70	\$ 23,177.98				
V::C20	S1-C20 Uplift testing per leg for Types (C1-1, or D2-1, or E1-1 (100 kPa) as pe	er Total struc		3	EA				\$	-	\$ -	-	\$ -	\$	-
	S1-C20 Uplift testing per leg for Types C1	-1, or D2-1, or E1-1 (100 kPa) as per te	echnical specification	on for Tower Typ	es C1, or D2, or	E1.										
	Not included		each	3			\$	- \$	-	\$		\$ -				
			each	3			\$	- \$	-	\$	- 3	\$ -				
			each	3			\$	- \$	-	\$	- 3	\$ -				
			each	3			\$	- \$	-	\$	- 3	\$ -				
			each	3			\$	- \$	-	\$	- 3	\$ -				
			each	3			\$	- \$		\$	- 3	\$ -				
			each	3			\$	- \$		\$	- 3	\$ -				
			each	3			\$	- \$		\$	- 3	\$ -				
			each	3			\$	- \$	-	\$		\$ -				
			each	3			\$	- \$	-	\$		\$ -				
			each	3			\$	- \$	-	\$		\$ -				
				- 1				\$		•	-	\$ -				
V::C21	S1-C21 Downward, uplift, and lateral lost S1-C21 Downward, uplift, and lateral load Not included	ad testing per leg for Types C1-3, or testing per leg for Types C1-3, or D2-3	D2-3, Total struct, or E1-3 as per te	chnical specification		EA /pes C1, or D2, c	or E1.	- \$ - \$	- -	\$	- - 3	\$ - \$ - \$ -	-	\$ -	\$	-
			each	3			¢	- \$		•		\$ -				
			each	3			ψ ¢			•						
			each	3			\$	- \$ - \$	-	•	- 3					
							\$			<u> </u>	- 3					
			each each	3			Φ	- \$	-	•	- 3					
				3			Φ	- \$	-	•						
			each	3			\$	- \$	-		- 3	\$ -				
			each	3			\$	- \$	-	•		\$ -				
			each	3			\$	- \$	-	•	- 3	\$ -				
			each	3			\$	- \$	-			\$ -				
								\$	-	\$	-	\$ -				



	NALCOR 350 kV HVdc Line Cons	struction Front 2 (Lo	ong Range Mounta	ins)				Crew Cost						Total Unit Cost		
Payment			J 11111 J 1111 J 1111 1		Units		Hours per							Manhours and		
tem	Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
	'			I	l	0.011.110.		1.10 dilly 1 tato	0 000t	<u>I</u>		O.III. O'GOL				
/-H10	Rock Foundations															
/::C22	S1-C22 Assembly and Installation of F	Foundation Type A1-2	as per Dwg 505573-	Total struc	ture count:	109	EA			\$ 1,583,569.2	9	\$ 14,528.16 \$	1,909.69	\$ 16,437.85	\$	208,156.2
	S1-C22 Assembly and Installation of For	undation Type A1-2 as	per Dwg 505573-4622	2-42DD-0074	for Tower Type A		_									
	Pad: 1.9m x 1.9m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	1.66	1778	30.6	56.7	92.7	91.0	4.00	3.0	50.0							
	Haul		Foundation Haul	each	109	17	1.54	\$ 441								
	Excavate		Found Excavation	each	109	19	1.53	\$ 1,143		· · · · · · · · · · · · · · · · · · ·						
	Prepare Rock Surface		Found Excavation	each	109	19	2.50	\$ 1,143								
	Rock drill Setup		Rock Foundations	each	109	36	1.00	\$ 920								
	Install Footing, Form and Pour base		Concrete Foundations	each	109	24	4.39	\$ 935								
	Backfill & Compact		Backfill and Compact	each	109	21	3.01	\$ 959								
	Cleanup		Site Cleanup	each	109	22	2.00		96 \$ 389.92							
	Heat and Hoard		Concrete Foundations	each	109	24	1.00	\$ 935								
				each	109			\$		\$ -	109					
				each	109			\$	7	\$ -						
				each	109			\$	_	\$ -	109					
				I					\$ 14,528.16	\$ 1,583,569.2	9	\$ 14,528.16				
	04 000 Assembly and leadellation of E	F	D F0FF70	Tatal atmis	t	20				¢ 220.754.5	2	¢ 40,007.70 ¢	2 700 44	¢ 40.000.44	•	EE 000 0
'::C23	S1-C23 Assembly and Installation of F					20	EA			\$ 336,754.5	2	\$ 16,837.73 \$	2,798.41	\$ 19,636.14	*	55,968.2
	S1-C23 Assembly and Installation of For	• •					#A	Hala Danilla (ma)	Hala Dia (mm)							
	Pad: 2.3m x 2.3m x 0.4m Concrete (m3) = 2.43	Steel Weight (lb)	Grout (I)			BackFill Vol(m3) 99.9	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	Haul	2107	100.1	75.8 each	102.3	99.9 17	4.00 1.48	5.0	04 \$ 651.87	\$ 13,037.4	1 20	\$ 651.87				
	Excavate		Foundation Haul Found Excavation	each	20	19	1.64	\$ 1. 143								
	Prepare Rock Surface		Found Excavation	each	20	19	3.50	\$ 1,143		<u> </u>						
	Rock drill Setup		Rock Foundations	each	20	36	1.00	\$ 920								
	Install Footing, Form and Pour base		Concrete Foundations	each	20	24	5.43	\$ 935								
			Concrete Foundations	Cuon					Φ 0,001.00	Ψ 101,001.7	20					
	Backfill & Compact		Backfill and Compact	each	20	21	3 11	\$ 959	25 \$ 2 983 13	\$ 59 662 5	9 20	\$ 2 983 13				
	Backfill & Compact Cleanup		Backfill and Compact	each each	20	21	3.11	\$ 959 \$ 194				,				
	Cleanup		Site Cleanup	each	20	22	2.00	\$ 194	96 \$ 389.92	\$ 7,798.4	3 20	\$ 389.92				
	· · · · · · · · · · · · · · · · · · ·		·	each each	20 20			\$ 194	96 \$ 389.92 63 \$ 935.63	\$ 7,798.4 \$ 18,712.5	3 20 3 20	\$ 389.92 \$ 935.63				
	Cleanup		Site Cleanup	each each each	20 20 20	22	2.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ -	\$ 7,798.4 \$ 18,712.5 \$ -	3 20 3 20 20	\$ 389.92 \$ 935.63 \$ -				
	Cleanup		Site Cleanup	each each	20 20 20 20 20	22	2.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$	\$ 7,798.4 \$ 18,712.5 \$ - \$ -	3 20 3 20 20 20	\$ 389.92 \$ 935.63 \$ -				
	Cleanup		Site Cleanup	each each each each	20 20 20	22	2.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$	\$ 7,798.4 \$ 18,712.5 \$ - \$ -	3 20 3 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ - \$ -				
	Cleanup		Site Cleanup	each each each each	20 20 20 20 20	22	2.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ -	3 20 3 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ -				
′::C24	Cleanup	Foundation Type A3-2	Site Cleanup Concrete Foundations	each each each each each	20 20 20 20 20 20	22	2.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ -	3 20 3 20 20 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ - \$ -	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard		Site Cleanup Concrete Foundations as per Dwg 505573-	each each each each each Total struc	20 20 20 20 20 20	22 24 10	2.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5	3 20 3 20 20 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ - \$ - \$ 16,837.73	1,909.69	\$ 16,437.85	\$	19,096.9
′::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of F		Site Cleanup Concrete Foundations as per Dwg 505573-	each each each each each Total struc	20 20 20 20 20 20 ture count: for Tower Type A Excavation (m3)	22 24 10	2.00 1.00	\$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5	3 20 3 20 20 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ - \$ - \$ 16,837.73	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as	Concrete Foundations as per Dwg 505573- per Dwg 505573-462:	each each each each each Total struc	20 20 20 20 20 20 ture count: for Tower Type A	22 24 10	2.00 1.00	\$ 194 \$ 935 \$ \$	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5	3 20 3 20 20 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula (S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I)	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 10 8 BackFill Vol(m3) 91.0 17	2.00 1.00 EA #Anchor Holes 4.00 1.54	\$ 194 \$ 935 \$ \$ \$ Hole Depth (m) 3.0	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5	3 20 3 20 20 20 20 20 20	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$	1,909.69	\$ 16,437.85	\$	19,096.90
′::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula (S1-C24 Assembly and Installation of Formula (S1-C24 Assembly and Installation of Formula (S1-S24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 10 3 BackFill Vol(m3) 91.0 17 19	2.00 1.00 1.00 EA #Anchor Holes 4.00 1.54 1.53	\$ 194 \$ 935 \$ \$ \$ \$ Hole Depth (m) 3.0 \$ 441 \$ 1,143	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7	3 20 3 20 20 20 20 20 20 20 20 20 20 20 20 20 2	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula (S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 10 3 BackFill Vol(m3) 91.0 17 19	2.00 1.00 1.00 EA #Anchor Holes 4.00 1.54 1.53 2.50	\$ 194 \$ 935 \$ \$ \$ \$ Hole Depth (m) 3.0 \$ 441 \$ 1,143 \$ 1,143	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9	3 20 3 20 20 20 20 20 20 20 20 20 20 20 20 20 2	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula (S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Rock Foundations	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 10 3 BackFill Vol(m3) 91.0 17 19 19	#Anchor Holes 4.00 1.54 1.53 2.50 1.00	\$ 194 \$ 935 \$ \$ \$ \$ \$ Hole Depth (m) 3.0 \$ 441 \$ 1,143 \$ 920	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0	3 20 3 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 10 3 BackFill Vol(m3) 91.0 17 19 19 36 24	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3	3 20 3 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 24 3 BackFill Vol(m3) 91.0 17 19 19 36 24 21	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74 25 \$ 2,888.75	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4	3 20 3 20 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10 8 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 24 3 BackFill Vol(m3) 91.0 17 19 19 36 24 21	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01 2.00	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959 \$ 194	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74 25 \$ 2,888.75 96 \$ 389.92	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4 \$ 3,899.2	3 20 3 20 20 20 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10 8 10 1 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75 \$ 389.92	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 24 3 BackFill Vol(m3) 91.0 17 19 19 36 24 21	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959 \$ 194 \$ 935	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74 25 \$ 2,888.75 96 \$ 389.92 63 \$ 935.63	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4 \$ 3,899.2 \$ 9,356.2	3 20 3 20 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10 8 10 1 10 6 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75 \$ 389.92 \$ 935.63	1,909.69	\$ 16,437.85	\$	19,096.9
/::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01 2.00	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959 \$ 194 \$ 935	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 \$ 9	\$ 7,798.4 \$ 18,712.5 \$ - \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4 \$ 3,899.2 \$ 9,356.2	3 20 3 20 20 20 20 20 20 20 20 20 2 20 20 2 2 10 9 10 4 10 8 10 8 10 10 10 10 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75 \$ 389.92 \$ 935.63 \$ -	1,909.69	\$ 16,437.85	\$	19,096.9
V::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01 2.00	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959 \$ 194 \$ 935 \$ 935	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74 25 \$ 2,888.75 96 \$ 389.92 63 \$ 935.63 \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4 \$ 3,899.2 \$ 9,356.2 \$ -	3 20 3 20 20 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10 1 10 6 10 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75 \$ 389.92 \$ 935.63 \$ -	1,909.69	\$ 16,437.85	\$	19,096.90
V::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01 2.00	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959 \$ 194 \$ 935	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74 25 \$ 2,888.75 96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4 \$ 3,899.2 \$ 9,356.2 \$ - \$ -	3 20 3 20 20 20 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10 1 10 1 10 1 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75 \$ 389.92 \$ 935.63 \$ - \$ -	1,909.69	\$ 16,437.85	\$	19,096.9
::C24	Cleanup Heat and Hoard S1-C24 Assembly and Installation of Formula S1-C24 Assembly and Installation of Formul	undation Type A3-2 as Steel Weight (lb)	Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 30.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	22 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	#Anchor Holes 4.00 1.54 1.53 2.50 1.00 4.39 3.01 2.00	\$ 194 \$ 935 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1,143 \$ 1,143 \$ 920 \$ 935 \$ 959 \$ 194 \$ 935 \$ 935	96 \$ 389.92 63 \$ 935.63 \$ - \$ - \$ 16,837.73 Hole Dia. (mm) 50.0 04 \$ 679.65 76 \$ 1,749.87 76 \$ 2,859.40 20 \$ 920.20 63 \$ 4,104.74 25 \$ 2,888.75 96 \$ 389.92 63 \$ 935.63 \$ - \$ -	\$ 7,798.4 \$ 18,712.5 \$ - \$ 336,754.5 \$ 145,281.5 \$ 6,796.5 \$ 17,498.7 \$ 28,593.9 \$ 9,202.0 \$ 41,047.3 \$ 28,887.4 \$ 3,899.2 \$ 9,356.2 \$ - \$ -	3 20 3 20 20 20 20 20 20 20 20 20 20 20 20 4 10 9 10 4 10 8 10 1 10 1 10 1 10	\$ 389.92 \$ 935.63 \$ - \$ - \$ 16,837.73 \$ 14,528.16 \$ \$ 679.65 \$ 1,749.87 \$ 2,859.40 \$ 920.20 \$ 4,104.74 \$ 2,888.75 \$ 389.92 \$ 935.63 \$ -	1,909.69	\$ 16,437.85	\$	19,096.9



NALCO	OR 350 kV HVdc Line Constru	ıction Front 2 (L	ong Range Mountai	<mark>n</mark> s)				Cre	ew Cost							Total Ur	nit Cost		
nent					Units		Hours per									Manhou		_	
Descript	otion				Total	Crew No.	unit	Hourly	Rate	Unit Cost	Subt	total	Units	Unit Cost	Materials	s Mat	erials	Total Materials	
04.005	· Assembly and Installation of Face		0 D 505570	Total atmus		40					\$ 6	77 027 20	•	4C 02E 02	· • • • •	700 44 6 4	0.704.04	¢	444.000.4
	Assembly and Installation of Four Assembly and Installation of Found					40	EA				\$ 6	577,037.38	\$	16,925.93	\$ 2,1	<mark>798.41</mark> \$ 1	9,724.34	Þ	111,936.
	n x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)			+ BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)									
Fau. 2.3111	2.43	2107	100.1	75.8	102.3	99.9	4.00	5.0		70.0									
Haul	2.40	2101	Foundation Haul	each	40	17	1.68	\$	441.04		\$	29,603.16	40 \$	740.08	T				
Excavat	te		Found Excavation	each	40	19	1.64	\$		\$ 1,872.23		74,889.14	40 \$	1,872.23	Ì				
	e Rock Surface		Found Excavation	each	40	19	3.50	\$,	\$ 4,003.16		60,126.34	40 \$	4,003.16	t				
	rill Setup		Rock Foundations	each	40	36	1.00	\$		\$ 920.20		36,808.15	40 \$	920.20	İ				
	Footing, Form and Pour base		Concrete Foundations	each	40	24	5.43	\$		\$ 5,081.59		203,263.51	40 \$	5,081.59	İ				
	& Compact		Backfill and Compact	each	40	21	3.11	\$		\$ 2,983.13		19,325.18	40 \$	2,983.13	†				
Cleanup	p		Site Cleanup	each	40	22	2.00	\$	194.96	\$ 389.92	\$	15,596.85	40 \$	389.92	†				
Heat an	nd Hoard		Concrete Foundations	each	40	24	1.00	\$	935.63	\$ 935.63		37,425.05	40 \$	935.63	İ				
				each	40			\$	-4	\$ -	\$	-	40 \$	-	İ				
				each	40			\$	-	\$ -	\$	-	40 \$	-					
				each	40			\$	-		\$	-	40 \$	<u>-</u>					
										\$ 16,925.93	\$ 6	677,037.38	\$	16,925.93					
	Assembly and Installation of Fou					3	EA				\$	50,777.80	\$	16,925.93	\$ 2,7	<mark>798.41</mark> \$ 1	9,724.34	\$	8,395
	Assembly and Installation of Found																		
Pad: 2.3m	m x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)		#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)									
	2.43	2107	100.1	75.8	102.3	99.9	4.00	5.0		70.0	•	0.000.01		710.00	T				
Haul			Foundation Haul	each	3	17	1.68	\$	441.04			2,220.24	3 \$	740.08	ļ				
Excavat			Found Excavation	each	3	19	1.64	\$	1,143.76	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5,616.69	3 \$	1,872.23	<u> </u>				
	e Rock Surface rill Setup		Found Excavation	each each	3	19 36	3.50 1.00	\$		\$ 4,003.16 \$ 920.20		12,009.48 2.760.61	3 \$	4,003.16 920.20	ł				
	Footing, Form and Pour base		Rock Foundations	each	3	24	5.43	\$		\$ 5,081.59		15,244.76	3 \$	5,081.59	 				
	& Compact		Concrete Foundations Backfill and Compact	each	3	21	3.11	Φ	959.25			8,949.39	3 \$	2,983.13	 				
Cleanup	•		Site Cleanup	each	3	22	2.00	Φ	194.96	\$ 389.92		1,169.76	3 \$	389.92	t				
	ห nd Hoard		Concrete Foundations	each	3	24	1.00	\$	935.63			2.806.88	3 \$	935.63	Ì				
i icat air	id i loai d		Concrete Foundations	each	3	24	1.00	\$			\$	-	3 \$	-	Ì				
				each	3		4	\$		•	\$	-	3 \$	-	Ì				
				each	3			\$		Ψ	\$	-	3 \$	-	t				
				545	, ,,					\$ 16,925.93		50,777.80	\$	16,925.93	1				
											•	,	-	-,	•				
S1-C27	Assembly and Installation of Fou	ndation Type B2-2	2 as per Dwg 505573-	Total struc	ture count:	100	EA				\$ 2,5	98,634.87	\$	25,986.35	\$ 2,7	<mark>793.12</mark> \$ 2	28,779.47	\$	279,312
S1-C27	' Assembly and Installation of Found	lation Type B2-2 as	s per Dwg 505573-4622	-42DD-0026	for Tower Type B	2													
Pad: 2.2m	m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	(0)	, ,	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)									
	2.43	4527	300.2	163.4	224.6	222.2	10.00	6.0		70.0					7				
Haul			Foundation Haul	each	100	17	2.89	\$		\$ 1,272.96		27,295.88	100 \$	1,272.96	<u> </u>				
Excavat			Found Excavation	each	100	19	3.00	\$,	\$ 3,426.56		342,656.00	100 \$	3,426.56	<u> </u>				
	e Rock Surface		Found Excavation	each	100	19	4.50	\$,	\$ 5,146.92		14,691.80	100 \$	5,146.92	ļ				
	rill Setup		Rock Foundations	each	100	36	1.00	\$	0-0:-0	\$ 920.20		92,020.38	100 \$	920.20	ļ				
	Footing, Form and Pour base		Concrete Foundations	each	100	24	10.27	\$	000.00	\$ 9,607.40		060,739.86	100 \$	9,607.40	}				
	& Compact		Backfill and Compact	each	100	21	4.47	\$		\$ 4,286.76		28,676.20	100 \$	4,286.76	}				
Cleanup			Site Cleanup	each	100	22	2.00	\$	10 1.00	\$ 389.92		38,992.13	100 \$	389.92	}				
Heat an	nd Hoard		Concrete Foundations	each	100	24	1.00	Ψ		\$ 935.63		93,562.63	100 \$	935.63	+				
				each	100			\$			\$	-	100 \$	-	+				
				each	100			\$		*	\$	-	100 \$ 100 \$	=	ł				
				each	100			\$	-	\$ - \$ 25,986.35	\$ ¢ 2.50	- 598,634.87	100 \$	25,986.35	1				
										4 25,900.35	Ψ ∠,5	000,004.07	Φ	23,900.35	I				



NALCOR 350 kV HVdc Line Cons	struction Front 2 (Lo	ng Range Mounta					Crew Cost						Total Unit Cost		
				Units		Hours per			0.1.1.1				Manhours and		
Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
04 000 4 11 11 4 11 4	- 1.0 T 440	D 505550	T-1-1-1	4				•	05 575 00	•	40.040.54	t 4 500 50	A. 40.440.00	•	40 744
S1-C28 Assembly and Installation of I S1-C28 Assembly and Installation of Fo				ture count:	9	EA		\$	95,575.62	\$	10,619.51	\$ 1,523.52	\$ 12,143.03	\$	13,711
Pad: 1.2m x 1.2m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)		BackFill Vol(m3)	#Anchor Holes	Hole Denth (m)	Hole Dia. (mm)							
1.32	153	6.0	34.5	5.0	0.0	1.00	1.8	57.0							
Haul	100	Foundation Haul	each	3.0	17	1.06	\$ 441.04	\$ 469.22 \$	4,222.94	9 \$	469.22				
Excavate		Found Excavation	each		19	0.56	\$ 1.143.76	\$ 635.64 \$	5,720.80	9 \$	635.64				
Prepare Rock Surface		Found Excavation	each	5	19	2.50	\$ 1,143.76	\$ 2,859.40 \$	25,734.59	9 \$	2,859.40				
Rock drill Setup		Rock Foundations	each	9	36	1.00	\$ 920.20	\$ 920.20 \$	8.281.83		920.20				
Install Footing, Form and Pour base		Concrete Foundations	each	g	24	2.66	\$ 935.63	\$ 2,491.01 \$	22,419.10		2,491.01				
Backfill & Compact		Backfill and Compact	each	9	21	2.00	\$ 959.25	\$ 1,918.49 \$	17,266.43		1,918.49				
Cleanup		Site Cleanup	each	9	22	2.00	\$ 194.96	\$ 389.92 \$	3,509.29		389.92				
Heat and Hoard		Concrete Foundations	each	9	24	1.00	\$ 935.63	\$ 935.63 \$	8,420.64	9 \$	935.63				
			each	9			\$ -	\$ - \$		9 \$	-				
			each	9			\$ -	\$ - \$		9 \$	-				
			each	9)		\$ -	\$ - \$	-	9 \$	-				
								\$ 10,619.51 \$	95,575.62	\$	10,619.51				
														_	
S1-C29 Assembly and Installation of				ture count:	2	EA		\$	22,159.23	\$	11,079.62	\$ 2,541.85	\$ 13,621.46	\$	5,08
S1-C29 Assembly and Installation of Fo															
Pad: 1.55m x 1.55m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)			Hole Depth (m)	Hole Dia. (mm)							
					0.0	1.00	1.8	57.0							
2.21	304	6.0	49.8	6.4	0.0										
Haul	304	6.0 Foundation Haul	each	0.4	17	1.13	\$ 441.04	\$ 496.89 \$	993.78		496.89				
Haul Excavate	304		each each		17 19	1.13 0.57	\$ 441. 04 \$ 1,143. 7 6	\$ 496.89 \$ 653.83 \$	1,307.65	2 \$	653.83				
Haul Excavate Prepare Rock Surface	304	Foundation Haul	each each each		17 19 19 19	1.13 0.57 2.50	\$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ 496.89 \$ \$ 653.83 \$ \$ 2,859.40 \$	1,307.65 5,718.80	2 \$	653.83 2,859.40				
Haul Excavate Prepare Rock Surface Rock drill Setup	304	Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each		17 19 19 19 36	1.13 0.57 2.50 1.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20	\$ 496.89 \$ \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$	1,307.65 5,718.80 1,840.41	2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each		17 19 19 19 36 24	1.13 0.57 2.50 1.00 3.11	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 496.89 \$ \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$	1,307.65 5,718.80 1,840.41 5,810.52	2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each		17 19 19 36 24 21	1.13 0.57 2.50 1.00 3.11 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	\$ 496.89 \$ \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each		17 19 19 36 24 21 22	1.13 0.57 2.50 1.00 3.11 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 496.89 \$ 653.83 \$ 2,859.40 \$ 920.20 \$ \$ 2,905.26 \$ 1,918.49 \$ \$ 389.92 \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each		17 19 19 36 24 21	1.13 0.57 2.50 1.00 3.11 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	\$ 496.89 \$ 653.83 \$ 2,859.40 \$ 920.20 \$ 2,905.26 \$ 1,918.49 \$ 389.92 \$ 935.63 \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17 19 19 36 24 21 22 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 496.89 \$ 653.83 \$ 2,859.40 \$ 920.20 \$ \$ 2,905.26 \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17 19 19 36 24 21 22 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ -	\$ 496.89 \$ 653.83 \$ 2,859.40 \$ 920.20 \$ \$ 2,905.26 \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17 19 19 36 24 21 22 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	304	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17 19 19 36 24 21 22 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ -	\$ 496.89 \$ 653.83 \$ 2,859.40 \$ 920.20 \$ \$ 2,905.26 \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63				
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard		Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17 19 19 36 24 21 22 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,079.62 \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63	\$ 2,073,68	\$ 12 021 70	•	2.07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of	Foundation Type A3-2	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17 19 19 36 24 21 22 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of Install	Foundation Type A3-2 as pundation Type A3-2 as p	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-4622	each each each each each each each each	ture count:	17 19 19 36 24 21 22 24 24 24 24 24 24 24 24 24 24 24 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00	\$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) =	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-4622 Grout (I)	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 36 24 21 22 24 22 24 24 24 24 24 24 24 24 24 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00 EA	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ \$ \$	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80	Foundation Type A3-2 as pundation Type A3-2 as p	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-4622 Grout (I) 6.0	each each each each each each each each	ture count:	17 19 19 36 24 21 22 24 24 24 25 24 26 27 28 28 29 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00 EA Rock) #Anchor Holes	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) =	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-4622 Grout (I)	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 36 24 21 22 24 22 24 24 24 24 24 24 24 24 24 24	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00 EA	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ \$ \$	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of Install	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-4622 Grout (I) 6.0 Foundation Haul	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 36 24 21 22 24 24 20 33 34 34 34 34 34 34 34 34 34 34 34 34	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00 EA *Rock) #Anchor Holes 1.00 1.07 0.56	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of Install	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 36 24 21 22 24 22 24 1 A3 (Weak Surface BackFill Vol(m3) 0.0 17	EA Rock) #Anchor Holes 1.07 0.56 2.50	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ -	\$ 496.89 \$ 653.83 \$ \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$ Hole Dia. (mm)	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of Is S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80 Haul Excavate	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 2 36 24 21 22 24 2 24 2 24 2 24 2 24 2 24 2	1.13 0.57 2.50 1.00 3.11 2.00 2.00 1.00 EA *Rock) #Anchor Holes 1.00 1.07 0.56	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ 935.63 \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$ Hole Dia. (mm)	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80 Haul Excavate Prepare Rock Surface Rock drill Setup	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 2 36 2 24 2 21 2 22 2 24 2 24 2 24 2 24 2 24	EA Rock) #Anchor Holes 1.07 0.56 2.50 1.00 1.00	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ -	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ 935.63 \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$ Hole Dia. (mm)	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40 920.20	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11 473.90 645.75 2,859.40 920.20	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of It S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 2 36 2 24 2 21 2 22 2 24 2 24 2 24 2 24 2 24	EA Rock) #Anchor Holes 1.07 0.56 2.50 1.00 2.00 1.00	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$ Hole Dia. (mm)	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of Install	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 2 19 36 2 24 2 21 2 22 2 24 2 24 2 24 2 24 2 24	EA : Rock) #Anchor Holes 1.00 2.50 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 1,143.76 \$ 1,143.76 \$ 1,143.76	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$ Hole Dia. (mm)	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49 389.92	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 2 19 36 2 24 21 22 2 24 2 24 2 24 2 24 2 24 2 2	EA ROCK) #Anchor Holes 1.00 1.00 2.00 1.00 2.00 1.00 1.00	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	\$ 496.89 \$ 653.83 \$ \$ 2.859.40 \$ \$ 920.20 \$ \$ 2.905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$ 473.90 \$ \$ 645.75 \$ \$ 2.859.40 \$ \$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49 389.92	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3)	17 19 19 2 36 2 24 2 21 2 22 2 24 2 24 2 24 2 21 2 29 2 24 2 24 2 21 2 29 2 24 2 21 2 29 2 24 2 21 2 29 2 29 2 29 2 29 2 29 2 29 2 29	EA : Rock) #Anchor Holes 1.00 2.50 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 935.63	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 11,079.62 \$ \$ Hole Dia. (mm)	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49 389.92 935.63	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49 389.92 935.63	\$ 2,073.68	\$ 12,931.79	\$	2,07
Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C30 Assembly and Installation of S1-C30 Assembly and Installation of Fo Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = 1.80 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup	Foundation Type A3-2 s bundation Type A3-2 as p Steel Weight (lb)	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations as per Dwg 505573- per Dwg 505573-462: Grout (I) 6.0 Foundation Haul Found Excavation Rock Foundations Concrete Foundations Concrete Foundations	each each each each each each each each	ture count: for Tower Type A Excavation (m3) 5.8	17 19 19 36 24 21 22 24 21 22 24 24 24 27 29 20 31 31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	EA : Rock) #Anchor Holes 1.00 2.50 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	\$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 496.89 \$ 653.83 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,905.26 \$ \$ 1,918.49 \$ \$ 935.63 \$ \$ - \$ \$ \$ 11,079.62 \$ \$ \$ 473.90 \$ \$ 645.75 \$ \$ 2,859.40 \$ \$ 920.20 \$ \$ 2,714.81 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ \$ \$ 935.63 \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,307.65 5,718.80 1,840.41 5,810.52 3,836.98 779.84 1,871.25 22,159.23 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49 389.92 935.63	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 3 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	653.83 2,859.40 920.20 2,905.26 1,918.49 389.92 935.63 11,079.62 10,858.11 473.90 645.75 2,859.40 920.20 2,714.81 1,918.49 389.92 935.63	\$ 2,073.68	\$ 12,931.79	\$	2,073



NALCO	OR 350 kV HVdc Line Constr	ruction Front 2 (L	Long Range Mount	<mark>ain</mark> s)				Crew Cost						Total Unit Cost		
					Units		Hours per							Manhours and		
Description	ion				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
04 004		10 - 14	o D 505574	T-1-1-1-1	-4				^	44.040.47	•	44.070.00	.	¢ 40.004.40	•	40.40
	Assembly and Installation of Foundation of F				cture count:	4	EA		\$	44,318.47	\$	11,079.62	\$ 2,541.85	\$ 13,621.46	\$	10,16
	m x 1.55m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)		,	Hole Depth (m)	Hole Dia. (mm)							
Fau. 1.55111	2.21	304	6.0	49.8	6.4	0.0	1.00	1.8	57.0							
Haul			Foundation Haul	each	J7	4 17	1.13	\$ 441.04	\$ 496.89 \$	1.987.56	4 \$	496.89				
Excavate	 ie		Found Excavation	each	1	4 19	0.57	\$ 1,143.76	\$ 653.83 \$	2,615.30	4 \$	653.83				
	Rock Surface		Found Excavation	each		4 19	2.50	\$ 1,143.76	\$ 2,859.40 \$	11,437.60	4 \$	2,859.40				
Rock drill			Rock Foundations	each		4 36	1.00	\$ 920.20	\$ 920.20 \$	3,680.82	4 \$	920.20				
Install Fo	ooting, Form and Pour base		Concrete Foundations	each		4 24	3.11	\$ 935.63	\$ 2,905.26 \$	11,621.04	4 \$	2,905.26				
Backfill &	& Compact		Backfill and Compact	each		4 21	2.00	\$ 959.25	\$ 1,918.49 \$	7,673.97	4 \$	1,918.49				
Cleanup)		Site Cleanup	each	4	4 22	2.00	\$ 194.96	\$ 389.92 \$	1,559.69	4 \$	389.92				
Heat and	d Hoard		Concrete Foundations	each		4 24	1.00	\$ 935.63	\$ 935.63 \$	3,742.51	4 \$	935.63				
				each		4		\$ -	\$ - \$	-	4 \$	-				
				each	•	4		-	\$ - \$		4 \$	-				
				each		4		-	\$ - \$	-	4 \$	-				
									\$ 11,079.62 \$	44,318.47	\$	11,079.62				
C4 C22 /	Assambly and Installation of Es	oundation Tune D4	2 Dun E0EE71	Total atmu	atura agunt.	1	EA		\$	11,150.35	\$	11,150.35	t 2700 40	\$ 13,858.83	¢	2.70
	Assembly and Installation of For Assembly and Installation of Foun								à	11,150.35	Ф	11,150.35	φ 2,700.40	р 13,030.03	Þ	2,70
	n x 1.6m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)			Hole Depth (m)	Hole Dia. (mm)							
rau. I.oiii x	2.36	305	6.0	50.2	6.7	0.0	1.00	1.8	57.0							
Haul	2.00		Foundation Haul	each	0.7	1 17	1.13	\$ 441.04		497.05	1 \$	497.05				
Excavate			Found Excavation	each		1 19	0.57	\$ 1,143.76		656.61	1 \$	656.61				
	Rock Surface		Found Excavation	each		1 19	2.50	\$ 1,143.76	\$ 2,859.40 \$	2,859.40	1 \$	2,859.40				
Rock drill			Rock Foundations	each		1 36	1.00	\$ 920.20	\$ 920.20 \$	920.20	1 \$	920.20				
Install Fo	ooting, Form and Pour base		Concrete Foundations	each		1 24	3.18	\$ 935.63	\$ 2,973.05 \$	2,973.05	1 \$	2,973.05				
Backfill &	& Compact		Backfill and Compact	each		1 21	2.00	\$ 959.25	\$ 1,918.49 \$	1,918.49	1 \$	1,918.49				
Cleanup)		Site Cleanup	each		1 22	2.00	\$ 194.96	\$ 389.92 \$	389.92	1 \$	389.92				
Heat and	d Hoard		Concrete Foundations	each		1 24	1.00	\$ 935.63	Φ 00F 00 Φ		4 6	005.00				
						L-7	1.00	a 933. 03	\$ 935.63 \$	935.63	1 \$	935.63				
				each		1	1.00	\$ 955.05	\$ 935.63 \$	935.63	1 \$	935.63				
				each		1	1.00	\$ 933.63 \$ -	\$ - \$ \$ - \$		1 \$ 1 \$					
						1	1.00	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$	- - -	1 \$ 1 \$ 1 \$					
				each		1 1	1.00	\$ - \$ - \$ -	\$ - \$ \$ - \$	-	1 \$ 1 \$	-				
				each each		1		\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 <u>\$</u>	- - - 11,150.35	1 \$ 1 \$ 1 \$ \$	11,150.35				400.46
	Assembly and Installation of Foun			each each	cture count:	81	EA	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$	- - -	1 \$ 1 \$ 1 \$		\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A	Assembly and Installation of Foun	ndation Type A1-2 as	as per Dwg 505573-462	each each - Total structure 22-42DD-0058	for Tower Type	81 A1 (Sound Surface	EA ee Rock)	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$	- - - 11,150.35	1 \$ 1 \$ 1 \$ \$	11,150.35	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A	Assembly and Installation of Foun 1 x 1.2m x 0.8m Concrete (m3) =	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I)	each each 8- Total structure 22-42DD-0058 Rebar (kg)	for Tower Type Excavation (m3)	81 A1 (Sound Surface BackFill Vol(m3)	EA ee Rock) #Anchor Holes	\$ - \$ - \$ -	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$	- - - 11,150.35	1 \$ 1 \$ 1 \$ \$	11,150.35	\$ 1,523.52 •	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x	Assembly and Installation of Foun	ndation Type A1-2 as	as per Dwg 505573-462 Grout (I) 6.0	each each 8- Total struc 22-42DD-0058 Rebar (kg) 47.1	for Tower Type Excavation (m3) 5.0	81 A1 (Sound Surface BackFill Vol(m3) 0.0	EA Pe Rock) #Anchor Holes 1.00	#	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0	- - - 11,150.35 767,948.21	1 \$ 1 \$ 1 \$ \$ \$ \$ \$ \$ \$	- - - 11,150.35 9,480.84	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x	Assembly and Installation of Foun n x 1.2m x 0.8m Concrete (m3) = 1.32	ndation Type A1-2 as Steel Weight (lb)	Grout (I) 6.0	each each 8- Total struc 22-42DD-0058 Rebar (kg) 47.1 each	for Tower Type Excavation (m3) 5.0 8	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1	EA te Rock) #Anchor Holes 1.00 1.08	# Hole Depth (m) 1.8	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$	- - 11,150.35 767,948.21	1 \$ 1 \$ \$ \$ \$ \$	- - 11,150.35 9,480.84	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x Haul Excavate	Assembly and Installation of Foun n x 1.2m x 0.8m Concrete (m3) = 1.32	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation	each each 3- Total struc 22-42DD-0058 Rebar (kg) 47.1 each each	for Tower Type Excavation (m3) 5.0 8 8	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19	EA DE ROCK) #Anchor Holes 1.00 1.08 0.56	# Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$	- - 11,150.35 767,948.21 38,418.62 51,487.19	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ 81 \$ \$ \$ 81 \$	- - 11,150.35 9,480.84 474.30 635.64	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x Haul Excavate	Assembly and Installation of Foundation 1.2m x 0.8m Concrete (m3) = 1.32	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation	each each 8- Total struc 22-42DD-0058 Rebar (kg) 47.1 each	for Tower Type Excavation (m3) 5.0 8 8	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19	EA te Rock) #Anchor Holes 1.00 1.08	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm)	38,418.62 51,487.19 138,966.79	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ 81 \$ \$ 81 \$ \$ 81 \$	- 11,150.35 9,480.84 474.30 635.64 1,715.64	\$ 1,523.52 •	\$ 11,004.36	\$	123,40
Pad: 1.2m x Haul Excavate Prepare F Rock drill	Assembly and Installation of Foundation 1.2m x 0.8m Concrete (m3) = 1.32	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation	each each 3- Total struc 22-42DD-0058 Rebar (kg) 47.1 each each each	for Tower Type Excavation (m3) 5.0 8 8	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36	EA #Anchor Holes 1.00 1.08 0.56 1.50	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$	- - 11,150.35 767,948.21 38,418.62 51,487.19	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ 81 \$ \$ \$ 81 \$	- - 11,150.35 9,480.84 474.30 635.64	\$ 1,523.52 •	\$ 11,004.36	\$	123,40
Pad: 1.2m x Haul Excavate Prepare F Rock drill Install For	Assembly and Installation of Fountaix 1.2m x 0.8m Concrete (m3) = 1.32 te Rock Surface ill Setup	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each 3- Total struu 22-42DD-0058 Rebar (kg) 47.1 each each each each	for Tower Type	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24	EA #Anchor Holes 1.00 1.08 0.56 1.50 1.00	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20	\$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$	38,418.62 51,487.19 138,966.79 74,536.50	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ 81 \$ \$ 81 \$ \$ 81 \$ \$ 81 \$ \$ 81 \$ \$ 81 \$ \$ 81 \$ \$ 81 \$ \$ \$ 81 \$ \$ \$ 81 \$ \$ \$ 81 \$ \$ \$ 81 \$ \$ \$ 81 \$ \$ \$ \$	- 11,150.35 9,480.84 474.30 635.64 1,715.64 920.20	\$ 1,523.52	\$ 11,004.36	\$	123,40
Pad: 1.2m x Haul Excavate Prepare F Rock drill Install For	Assembly and Installation of Fount 1.2m x 0.8m Concrete (m3) = 1.32 te Rock Surface ill Setup Cooting, Form and Pour base & Compact	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each 3- Total struu 22-42DD-0058 Rebar (kg) 47.1 each each each each	for Tower Type	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21	EA #Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,491.01 \$	38,418.62 51,487.19 138,966.79 74,536.50 201,771.92	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 11,150.35 9,480.84 474.30 635.64 1,715.64 920.20 2,491.01	\$ 1,523.52	\$ 11,004.36	\$	123,40
Pad: 1.2m x Haul Excavate Prepare F Rock drill Install For Backfill &	Assembly and Installation of Fount 1.2m x 0.8m Concrete (m3) = 1.32 te e Rock Surface ill Setup footing, Form and Pour base & Compact	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each 3- Total strue 22-42DD-0058 Rebar (kg) 47.1 each each each each each	for Tower Type	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 36 1 24 1 21 1 22	EA He Rock) #Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00	Hole Depth (m) 1.8 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,491.01 \$ \$ 1,918.49 \$	38,418.62 51,487.19 138,966.79 74,536.50 201,771.92 155,397.83	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 11,150.35 9,480.84 474.30 635.64 1,715.64 920.20 2,491.01 1,918.49	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x Haul Excavate Prepare F Rock drill Install For Backfill & Cleanup	Assembly and Installation of Fount 1.2m x 0.8m Concrete (m3) = 1.32 te e Rock Surface ill Setup footing, Form and Pour base & Compact	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each 3- Total strue 22-42DD-0058 Rebar (kg) 47.1 each each each each each each each	for Tower Type	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 36 1 24 1 21 1 22	EA #Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,491.01 \$ \$ 1,918.49 \$ \$ 389.92 \$	- - - 11,150.35 767,948.21 38,418.62 51,487.19 138,966.79 74,536.50 201,771.92 155,397.83 31,583.62	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 11,150.35 9,480.84 474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x Haul Excavate Prepare F Rock drill Install For Backfill & Cleanup	Assembly and Installation of Fount 1.2m x 0.8m Concrete (m3) = 1.32 te e Rock Surface ill Setup footing, Form and Pour base & Compact	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Site Cleanup Concrete Foundations	each each B- Total struct 22-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	for Tower Type	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 24 1 21 1 24	EA #Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,491.01 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ - \$	38,418.62 51,487.19 138,966.79 74,536.50 201,771.92 155,397.83 31,583.62 75,785.73	1	- - - 11,150.35 9,480.84 474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92 935.63	\$ 1,523.52	\$ 11,004.36	\$	123,40
S1-C33 A Pad: 1.2m x Haul Excavate Prepare F Rock drill Install For Backfill & Cleanup	Assembly and Installation of Fount 1.2m x 0.8m Concrete (m3) = 1.32 te e Rock Surface ill Setup footing, Form and Pour base & Compact	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-462 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Site Cleanup Concrete Foundations	each each 3- Total struct 22-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	for Tower Type	81 A1 (Sound Surface BackFill Vol(m3) 0.0 1 17 1 19 1 19 1 24 1 21 1 24	EA #Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00	Hole Depth (m) 1.8 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ - \$ \$ - \$ \$ - \$ \$ 11,150.35 \$ Hole Dia. (mm) 57.0 \$ 474.30 \$ \$ 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$ \$ 2,491.01 \$ \$ 1,918.49 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	- - - - - - - - - - - - - - - - - - -	1 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 11,150.35 9,480.84 474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92 935.63	\$ 1,523.52	\$ 11,004.36	\$	123,40



	NALCOR 350 kV HVdc Line Consti	ruction Front 2 (L	ong Range Mounta					Crew Co	st						Total Unit Cost		
Payment					Units		Hours per								Manhours and		
Item	Description				Total	Crew No.	unit	Hourly Rate	Unit (Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
										_							
/::C34	S1-C34 Assembly and Installation of Fo	oundation Type A2-2	2 as per Dwg 505573-	- Total struc	ture count:	16	EA			\$	159,055.13	\$	9,940.95	\$ 2,541.85	\$ 12,482.79	9 \$	40,669.5
	S1-C34 Assembly and Installation of Four							5 ()	5: /	,							
	Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = 2.21	Steel Weight (lb)	Grout (I)	(0)		\ /		Hole Depth (m)	Hole Dia. (mn	<u>, </u>							
	Haul	332	6.0	62.4 each	6.4	0.0 17	1.00	1.8		501.98 \$	8,031.65	16 \$	501.98				
	Excavate		Foundation Haul	each	16 16		0.57		1.04 \$ 3.76 \$	653.83 \$	10,461.21	16 \$	653.83				
	Prepare Rock Surface		Found Excavation	each	16		1.50			1.715.64 \$	27,450.23	16 \$	1.715.64				
	Rock drill Setup		Found Excavation	each	16		1.00		0.20 \$	920.20 \$	14.723.26	16 \$	920.20				
	Install Footing, Form and Pour base		Rock Foundations	each	16		3.11			2,905.26 \$	46,484.16	16 \$	2,905.26				
	Backfill & Compact		Concrete Foundations Backfill and Compact	each	16		2.00			1,918.49 \$	30,695.87	16 \$	1,918.49				
	Cleanup		Backfill and Compact Site Cleanup	each	16		2.00		4.96 \$	389.92 \$	6,238.74	16 \$	389.92				
	Heat and Hoard			each	16		1.00		5.63 \$	935.63 \$	14,970.02	16 \$	935.63				
	Heat and Hoard		Concrete Foundations	each	16		1.00	φ 9.	- \$	- \$	14,970.02	16 \$	933.03				
				each	16			\$	- \$	- \$		16 \$	-				
				each	16			\$	- \$	- \$	-	16 \$	-				
				Cuon	10			Ψ		9,940.95 \$	159.055.13	\$	9,940.95				
									Ψ	φ,ο 10.00 φ	100,000.10	Ψ	0,010.00				
:C35	S1-C35 Assembly and Installation of Fo	oundation Type A3-2	2 as per Dwg 505573-	- Total struc	ture count:	7	EA			\$	68,036.04	\$	9,719.43	\$ 2,073.68	\$ 11,793.1°	1 \$	14,515.7
.000	S1-C35 Assembly and Installation of Four									•	00,000.01	ų.	0,1 101-10	2,0.0.00	Ψ 11,10011	•	1-1,01011
	Pad: 1.4m x 1.4m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)		#Anchor Holes	Hole Depth (m)	Hole Dia. (mn)							
	1.80	207	6.0	48.7	5.8	0.0	1.00	1.8	57.								
	Haul		Foundation Haul	each	7	17	1.09			478.99 \$	3,352.94	7 \$	478.99				
	Excavate		Found Excavation	each	7	19	0.56		3.76 \$	645.75 \$	4,520.23	7 \$	645.75				
	Prepare Rock Surface		Found Excavation	each	7	19	1.50			1,715.64 \$	12.009.48	7 \$	1,715.64				
	Rock drill Setup		Rock Foundations	each	7	36	1.00		0.20 \$	920.20 \$	6,441.43	7 \$	920.20				
	Install Footing, Form and Pour base		Concrete Foundations	each	7	24	2.90			2,714.81 \$	19,003.69	7 \$	2,714.81				
	Backfill & Compact		Backfill and Compact	each	7	21	2.00			1.918.49 \$	13,429,44	7 \$	1,918,49				
	Cleanup		Site Cleanup	each	7	22	2.00		4.96 \$	389.92 \$	2,729.45	7 \$	389.92				
	Heat and Hoard		Concrete Foundations	each	7	24	1.00	\$ 9	5.63 \$	935.63 \$	6,549.38	7 \$	935.63				
				each	7			\$	- \$	- \$	-	7 \$	-				
				each	7			\$	- \$	- \$	-	7 \$	-				
				each	7			\$	- \$	- \$	-	7 \$	-				
				11		<u> </u>			\$	9,719.43 \$	68,036.04	\$	9,719.43				
											·						
:C36	S1-C36 Assembly and Installation of Fo	oundation Type A4-2	2 as per Dwg 505573-		ture count:	31	EA			\$	308,169.32	\$	9,940.95	\$ 2,541.85	\$ 12,482.79	9 \$	78,797.2
	S1-C36 Assembly and Installation of Four	ndation Type A4-2 as	s per Dwg 505573-462	22-42DD-0058	for Tower Type A	4 (Sound Surfac	e Rock)										
	Pad: 1.55m x 1.55m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mn)							
	2.21	332	6.0	62.4	6.4	0.0	1.00	1.8	57.								
	Haul		Foundation Haul	each	31		1.14		1.04 \$	501.98 \$	15,561.32		501.98				
	Excavate		Found Excavation	each	31		0.57		3.76 \$	653.83 \$	20,268.59	31 \$	653.83				
	Prepare Rock Surface		Found Excavation	each	/31		1.50			1,715.64 \$	53,184.82	31 \$	1,715.64				
	Rock drill Setup		Rock Foundations	each	31		1.00		0.20 \$	920.20 \$	28,526.32	31 \$	920.20				
	Install Footing, Form and Pour base		Concrete Foundations	each	31		3.11			2,905.26 \$	90,063.06	31 \$	2,905.26				
	Backfill & Compact		Backfill and Compact	each	31		2.00	<u> </u>		1,918.49 \$	59,473.24	31 \$	1,918.49				
	Cleanup		Site Cleanup	each	31		2.00		4.96 \$	389.92 \$	12,087.56	31 \$	389.92				
	Heat and Hoard		Concrete Foundations	each	31		1.00	\$ 9	5.63 \$	935.63 \$	29,004.41	31 \$	935.63				
				each	31			\$	- \$	- \$	-	31 \$	-				
				each	31			\$	- \$	- \$	-	31 \$	-				
									\$	9,940.95 \$	308,169.32	\$	9,940.95				
									Ψ	σ,υ-τυ.υυ ψ	000,100.02	Ψ	0,010.00				



Valard Construction LP

C C C C O IV	V HVdc Line Constru	uction Front 2 (L	ong Range Mounta	<mark>ain</mark> s)				Crew Cost						Total Unit Cost		
į.			-		Units		Hours per							Manhours and		
Description					Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
S1-C37 Assembly	and Installation of Fou	undation Type R1-	.2 as ner Dwa 505573	L Total struc	cture count:	3	EA		\$	30.035.04	\$	10,011.68	2,708.48	\$ 12,720.16	\$ 8	8,125.4
	and Installation of Found								4	00,000.0	Ψ	10,011.00	2,100.40	Ψ 12,720.10	•	0,120.4
Pad: 1.6m x 1.6m x 0.8n		Steel Weight (lb)	Grout (I)	Rebar (kg)		BackFill Vol(m3)	,	Hole Depth (m)	Hole Dia. (mm)							
	2.36	332	6.0	62.8	6.7	0.0	1.00	1.8	57.0							
Haul			Foundation Haul	each		3 17	1.14	\$ 441.04	\$ 502.14 \$	1,506.41	3 \$	502.14				
Excavate			Found Excavation	each		3 19	0.57	\$ 1,143.76	\$ 656.61 \$	1,969.84		656.61				
Prepare Rock Surfa	ace		Found Excavation	each		3 19	1.50	\$ 1,143.76				1,715.64				
Rock drill Setup			Rock Foundations	each		3 36	1.00	\$ 920.20	\$ 920.20 \$			920.20				
Install Footing, Forn	m and Pour base		Concrete Foundations	each		3 24	3.18	\$ 935.63	\$ 2,973.05 \$	8,919.14	3 \$	2,973.05				
Backfill & Compact	t		Backfill and Compact	each		3 21	2.00	\$ 959.25	\$ 1,918.49 \$	5,755.48	3 \$	1,918.49				
Cleanup			Site Cleanup	each		3 22	2.00	\$ 194.96	\$ 389.92 \$	1,169.76	3 \$	389.92				
Heat and Hoard			Concrete Foundations	each		3 24	1.00	\$ 935.63	\$ 935.63 \$	2,806.88	3 \$	935.63				
				each		3		\$ -	\$ - \$	-	3 \$	-				
				each		3		\$ -	\$ - \$		3 \$	-				
				each		3		\$ -	\$ - \$	-	3 \$	-				
									\$ 10,011.68 \$	30,035.04	\$	10,011.68				
															_	
	r and Installation of Fou				cture count:	88	EA		\$	2,271,225.35	\$	25,809.38	2,793.12	\$ 28,602.50	\$	245,794.
	and Installation of Found															
Pad: 2.2m x 2.4m x 0.4m	. ,	Steel Weight (lb)	Grout (I)	Rebar (kg)	. ,	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	2.43	4441	199.0	124.3	224.6	222.2	10.00	6.0	57.0							
Haul			Foundation Haul	each		17	2.85	\$ 441.04				1,257.13				
Excavate			Found Excavation	each		19	3.00	\$ 1,143.76	\$ 3,426.56 \$	301,537.28	0010	3 426 56 1				
			Found Excavation									3,426.56				
Prepare Rock Surfa	ace		Found Excavation	each	3	19	4.50	\$ 1,143.76	\$ 5,146.92 \$	452,928.78	88 \$	5,146.92				
Prepare Rock Surfa Rock drill Setup			Found Excavation Rock Foundations	each each	3	38 19 38 36	4 .50 1.00	\$ 1,143.76 \$ 9 20.20	\$ 5,146.92 \$ 920.20 \$	452,928.78 80,977.93	88 \$ 88 \$	5,146.92 920.20				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr	m and Pour base		Found Excavation Rock Foundations Concrete Foundations	each each each	8 8 8	38 19 38 36 38 24	4.50 1.00 10.10	\$ 1,143.76 \$ 920.26 \$ 935.63	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$	452,928.78 80,977.93 831,270.36	88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each	\$ \$ \$	19 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	4.50 1.00 10.10 4.47	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$	452,928.78 80,977.93 831,270.36 377,235.06	88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each	\$ \$ \$ \$	19 18 18 18 18 18 24 18 21 18 22	4.50 1.00 10.10 4.47 2.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ \$ 389.92 \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07	88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19 19 18 36 36 18 24 18 21 18 22 18 24	4.50 1.00 10.10 4.47	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18 19 18 36 18 24 18 21 18 22 18 24 18 24 18 24 18 24 18 24 18 24 18 24 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ \$ 935.63 \$ \$ - \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18 19 18 36 18 24 18 21 18 22 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18 19 18 36 18 24 18 21 18 22 18 24 18 24 18 24 18 24 18 24 18 24 18 24 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	m and Pour base		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18 19 18 36 18 24 18 21 18 22 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63				
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard	rm and Pour base t	undation Type C1-	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	18 19 18 36 88 24 88 21 188 22 18 24 88 88 88 88 88 88 88 88 88 88 88 88 88	4.50 1.00 10.10 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ - \$ \$ 25,809,38 \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38	2 793 12	\$ 27 458 74	■ \$	89 379
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard	rm and Pour base t		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	Eture count:	18 19 18 36 18 24 18 21 18 22 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ \$ - \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard	rm and Pour base t and Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Found	dation Type C1-2 as	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462	each each each each each each each each	& & & & & & & & & & & & & & & & & & &	18 19 18 36 18 24 18 21 18 22 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63 \$ -	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ - \$ \$ 25,809,38 \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m	rm and Pour base t and Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Foundand Installation of Found		Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each each each each each each each each	Eture count:	18 19 18 36 18 24 18 21 18 22 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ \$ - \$ \$ \$ 25,809,38 \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) =	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I)	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18 19 18 36 18 24 18 21 18 22 18 24 18 18 28 24 18 18 18 18 18 18 18 18 18 18 18 18 18	4.50 1.00 10.10 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63 \$ -	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ \$ - \$ \$ \$ 25,809,38 \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - 25,809.38	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) =	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18 19 18 36 18 24 18 21 18 22 18 24 18 18 24 18 18 18 18 18 18 18 18 18 18 18 18 18	#Anchor Holes	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ \$ - \$ \$ \$ 25,809,38 \$ \$	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m Haul	rm and Pour base t and Installation of Found and Installation of Found m Concrete (m3) = 2.43	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 2.85	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.26 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 9,446.25 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ 25,809.38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - 25,809.38 24,665.62	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m Haul Excavate	rm and Pour base t and Installation of Found and Installation of Found m Concrete (m3) = 2.43	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 #Anchor Holes 10.00 2.85 3.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ - \$ -	\$ 5,146.92 \$ 920.20 \$ 9,446.25 \$ 9,446.25 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ 25,809.38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11 2,271,225.35 789,299.82 40,228.27 109,649.92 128,101.07	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - 25,809.38 24,665.62	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa	rm and Pour base t r and Installation of Found m Concrete (m3) = 2.43	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations -2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation	each each each each each each each each	Ecture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 EA #Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.22 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 9,446,25 \$ \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ - \$ \$ 25,809,38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38 24,665.62 1,257.13 3,426.56 4,003.16 920.20 9,446.25	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa Rock drill Setup	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) = 2.43 face rm and Pour base	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 EA #Anchor Holes 10.00 2.85 3.00 3.50 1.00 4.47	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 935,63 \$ \$ - \$ \$ \$ 25,809.38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38 24,665.62 1,257.13 3,426.56 4,003.16 920.20 9,446.25 4,286.76	2,793.12	\$ 27,458.74	1 \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa Rock drill Setup Install Footing, Forr	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) = 2.43 face rm and Pour base	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 EA #Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.22 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 9,446,25 \$ \$ 4,286,76 \$ \$ 389,92 \$ \$ 935,63 \$ \$ - \$ \$ - \$ \$ 25,809,38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38 24,665.62 1,257.13 3,426.56 4,003.16 920.20 9,446.25	2,793.12	\$ 27,458.74	. \$	89,379
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly a Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) = 2.43 face rm and Pour base	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 EA #Anchor Holes 10.00 2.85 3.00 3.50 1.00 4.47	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 935,63 \$ \$ - \$ \$ \$ 25,809.38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 3377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38 24,665.62 1,257.13 3,426.56 4,003.16 920.20 9,446.25 4,286.76	2,793.12	\$ 27,458.74	. \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly s Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) = 2.43 face rm and Pour base	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 2.85 3.00 1.00 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.28 \$ 194.96	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 935,63 \$ \$ - \$ \$ \$ 25,809,38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38 24,665.62 3,426.56 4,003.16 920.20 9,446.25 4,286.76 389.92	2,793.12	\$ 27,458.74	• \$	89,379.
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly s Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) = 2.43 face rm and Pour base	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 2.85 3.00 1.00 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.22 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 935,63 \$ \$ - \$ \$ \$ 25,809,38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - - 25,809.38 24,665.62 3,426.56 4,003.16 920.20 9,446.25 4,286.76 389.92 935.63	2,793.12	\$ 27,458.74	• \$	89,379.(
Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup Heat and Hoard S1-C39 Assembly S1-C39 Assembly s Pad: 2.2m x 2.4m x 0.4m Haul Excavate Prepare Rock Surfa Rock drill Setup Install Footing, Forr Backfill & Compact Cleanup	rm and Pour base t r and Installation of Found and Installation of Found m Concrete (m3) = 2.43 face rm and Pour base	dation Type C1-2 as Steel Weight (lb)	Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-462 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	cture count: for Tower Type Excavation (m3) 224.6	18	#Anchor Holes 10.00 2.85 3.00 1.00 4.47 2.00 1.00	\$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.22 \$ 194.96 \$ 935.63 \$ \$ \$ Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 5,146,92 \$ 920,20 \$ 9,446,25 \$ 4,286,76 \$ \$ 935,63 \$ \$ - \$ \$ \$ 25,809,38 \$ \$ Hole Dia. (mm)	452,928.78 80,977.93 831,270.36 377,235.06 34,313.07 82,335.11	88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$ 88 \$	5,146.92 920.20 9,446.25 4,286.76 389.92 935.63 - - 25,809.38 24,665.62 3,426.56 4,003.16 920.20 9,446.25 4,286.76 389.92 935.63	2,793.12	\$ 27,458.74	1 \$	89,379.8



Valard Construction LP

	ALCOR 350 kV HVdc Line Cons	struction Front 2 (L	ong Range Mounta					Crew Cost						Total Unit Cost		
					Units		Hours per	=		0.1	l			Manhours and		
De	escription				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
64	1 C40 Assembly and Installation of F	Farm dation Time CO	2 D F0FF72	Total atru	cture count:	48	EA		\$	1,249,723.55	\$	26,035.91	2 702 42	\$ 28,829.03	ı œ	134,069
	1-C40 Assembly and Installation of Fount- 1-C40 Assembly and Installation of Fount-						_ EA		Ф	1,249,723.55	Ф	20,035.91	2,793.12	\$ 20,029.03	Þ	134,00
	id: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)		BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	2.43	4551	199.0	124.3	224.6	222.2	10.00	6.0	57.0							
На	aul		Foundation Haul	each	48	17	2.90	\$ 441.04		61,314.74	48 \$	1,277,39				
Ex	xcavate		Found Excavation	each	48	19	3.00	\$ 1,143.76	\$ 3,426.56 \$	164,474.88	48 \$	3,426.56				
Pre	repare Rock Surface		Found Excavation	each	48	19	4.50	\$ 1,143.76	\$ 5,146.92 \$	247,052.06	48 \$	5,146.92				
	ock drill Setup		Rock Foundations	each	48	36	1.00	\$ 920.20	\$ 920.20 \$	44,169.78	48 \$	920.20				
Ins	stall Footing, Form and Pour base		Concrete Foundations	each	48	24	10.32	\$ 935.63	\$ 9,652.53 \$	463,321.22	48 \$	9,652.53				
	ackfill & Compact		Backfill and Compact	each	48	21	4.47	\$ 959.25	\$ 4,286.76 \$	205,764.58	48 \$	4,286.76				
_	leanup		Site Cleanup	each	48	22	2.00	\$ 194.96	\$ 389.92 \$	18,716.22	48 \$	389.92				
He	eat and Hoard		Concrete Foundations	each	48	24	1.00	\$ 935.63	\$ 935.63 \$	71 111	48 \$	935.63				
				each	48			\$ -	\$ - \$	-	48 \$	-				
				each	48		_	\$ -	\$ - \$		48 \$	-				
				each	48			\$ -	\$ - \$	4 040 700 55	48 \$	-				
									\$ 26,035.91 \$	1,249,723.55	\$	26,035.91				
61	1-C41 Assembly and Installation of Fo	Foundation Type D1	2 ac par Dwa 505572	Total struc	cture count:	36	EA		\$	905,903.35	\$	25,163.98	2 702 12	\$ 27,957.10	l e	100.5
	1-C41 Assembly and Installation of Fou						_ EA		a a	905,905.55	Φ	25,105.56	2,193.12	Φ 21,931.10	Ψ	100,5
	id: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)		Excavation (m3)		#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
1 40	2.43	4683	215.6	124.3	224.6	222.2	10.00	6.5	57.0							
Ha	aul	1000	Foundation Haul	each	36	17	2.95	\$ 441.04		46,861.16	36 \$	1,301.70				
	xcavate	-	Found Excavation	each	36	19	3.00	\$ 1,143.76		123,356.16	36 \$	3,426.56				
_	repare Rock Surface		Found Excavation	each	36	19	3.50	\$ 1,143.76		144,113.70	36 \$	4,003.16				
Ro	ock drill Setup		Rock Foundations	each	36	36	1.00	\$ 920.20	\$ 920.20 \$	33,127.34	36 \$	920.20				
Ins	stall Footing, Form and Pour base		Concrete Foundations	each	36	24	10.58	\$ 935.63	\$ 9,900.05 \$	356,401.84	36 \$	9,900.05				
Ва	ackfill & Compact		Backfill and Compact	each	36	21	4.47	\$ 959.25	\$ 4,286.76 \$	154,323.43	36 \$	4,286.76				
Cle	leanup		Site Cleanup	each	36	22	2.00	\$ 194.96	\$ 389.92 \$	14,037.17	36 \$	389.92				
He	eat and Hoard		Concrete Foundations	each	36	24	1.00	\$ 935.63		33,682.55	36 \$	935.63				
				each	36			-	- \$	_	36 \$	-				
				each	36			\$ -	\$ - \$	-	36 \$	-				
				each	36 36			- \$	\$ - \$	-	36 \$ 36 \$	-				
								\$ -	, ,	-	36 \$					
61	C42 Assembly and Installation of E	Soundation Type D2 (2 oo nor Dwg 505572	each	36	20		\$ -	\$ - \$ \$ 25,163.98 \$	905,903.35	36 \$ 36 \$ \$	25,163.98	2 702 42	¢ 20.400.96	l e	EE 96
	1-C42 Assembly and Installation of Fou			each - Total struc	36 cture count:	20	ea	\$ -	\$ - \$	-	36 \$ 36 \$	-	2,793.12	\$ 29,100.86	\$	55,86
S1	1-C42 Assembly and Installation of Fou	oundation Type D2-2 as	s per Dwg 505573-462	each Total struc 22-42DD-0026	cture count: for Tower Type D	2		S -	\$ - \$ \$ 25,163.98 \$	905,903.35	36 \$ 36 \$ \$	25,163.98	2,793.12	\$ 29,100.86	\$	55,86
S1	1-C42 Assembly and Installation of Fou d: 2.2m x 2.4m x 0.4m Concrete (m3) =	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I)	each Total struc 22-42DD-0026 Rebar (kg)	cture count: for Tower Type D: Excavation (m3)	2 BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm)	905,903.35	36 \$ 36 \$ \$	25,163.98	2,793.12	\$ 29,100.86	\$	55,86
S1 Pac	1-C42 Assembly and Installation of Fou d: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43	oundation Type D2-2 as	s per Dwg 505573-462: Grout (I) 215.6	each - Total struc 22-42DD-0026 Rebar (kg) 124.3	cture count: for Tower Type D Excavation (m3) 224.6	2 BackFill Vol(m3) 222.2	#Anchor Holes	6.5	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0	905,903.35 526,154.83	36 \$ 36 \$ \$	25,163.98 26,307.74	2,793.12	\$ 29,100.86	\$	55,86
S1 Pac Ha	1-C42 Assembly and Installation of Fou d: 2.2m x 2.4m x 0.4m Concrete (m3) =	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462 Grout (I)	each Total struc 22-42DD-0026 Rebar (kg)	cture count: for Tower Type D: Excavation (m3)	2 BackFill Vol(m3)	#Anchor Holes	6.5	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$	905,903.35	36 \$ 36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25,163.98	2,793.12	\$ 29,100.86	\$	55,86
S1 Pad Ha Ex	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462; Grout (I) 215.6	each - Total struc 22-42DD-0026 Rebar (kg) 124.3 each	cture count: for Tower Type D Excavation (m3) 224.6	2 BackFill Vol(m3) 222.2 17	#Anchor Holes 10.00 2.95	6.5	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$	905,903.35 526,154.83 26,033.98	36 \$ 36 \$ \$ \$ \$ \$ 20 \$ 20 \$	25,163.98 26,307.74 \$	2,793.12	\$ 29,100.86	\$	55,86
S1 Pac Ha Ex Pre	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul scavate	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462: Grout (I) 215.6 Foundation Haul Found Excavation	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each	cture count: for Tower Type D: Excavation (m3) 224.6 20 20	2 BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 2.95 3.00	6.5 \$ 441.04 \$ 1,143.76	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$	905,903.35 526,154.83 26,033.98 68,531.20	36 \$ 36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25,163.98 26,307.74 \$ 1,301.70 3,426.56	2,793.12	\$ 29,100.86	\$	55,86
Ha Ex Pre	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul acavate repare Rock Surface	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462: Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each each	224.6	2 BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 2.95 3.00 4.50	6.5 \$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$	905,903.35 526,154.83 26,033.98 68,531.20 102,938.36	36 \$ 36 \$ \$ \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$	25,163.98 26,307.74 \$ 1,301.70 3,426.56 5,146.92	2,793.12	\$ 29,100.86	\$	55,86
S1 Pac Ha Ex Pre Ro Ins	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul acavate repare Rock Surface ock drill Setup	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462: Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation Rock Foundations	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each each each	cture count: for Tower Type D: Excavation (m3) 224.6 20 20 20	2 BackFill Vol(m3) 222.2 17 19 19	#Anchor Holes 10.00 2.95 3.00 4.50	6.5 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$ \$ 920.20 \$	905,903.35 526,154.83 26,033.98 68,531.20 102,938.36 18,404.08	36 \$ 36 \$ \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20	25,163.98 26,307.74 9 1,301.70 3,426.56 5,146.92 920.20	2,793.12	\$ 29,100.86	\$	55,86
Ha Ex Pro Ro Ins	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul excavate repare Rock Surface ock drill Setup stall Footing, Form and Pour base	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462: Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each - Total struc 22-42DD-0026 Rebar (kg) 124.3 each each each each each	20 20 20 20	2 BackFill Vol(m3) 222.2 17 19 19 36 24	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58	6.5 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$ \$ 920.20 \$ \$ 9,900.05 \$ \$ 4,286.76 \$	905,903.35 526,154.83 26,033.98 68,531.20 102,938.36 18,404.08 198,001.02	36 \$ 36 \$ \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20	25,163.98 26,307.74 1,301.70 3,426.56 5,146.92 920.20 9,900.05	2,793.12	\$ 29,100.86	\$	55,86
Ha Ex Pre Ro Ins Ba	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul scavate repare Rock Surface ock drill Setup stall Footing, Form and Pour base ackfill & Compact	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462: Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58 4.47	6.5 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$ \$ 920.20 \$ \$ 9,900.05 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$		36 \$ 36 \$ \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20	25,163.98 26,307.74 1,301.70 3,426.56 5,146.92 920.20 9,900.05 4,286.76	2,793.12	\$ 29,100.86	\$	55,86
Ha Ex Pre Ro Ins Ba	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul acavate repare Rock Surface ock drill Setup stall Footing, Form and Pour base ackfill & Compact	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462: Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58 4.47 2.00	6.5 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$ \$ 920.20 \$ \$ 9,900.05 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$		36 \$ 36 \$ \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20	25,163.98 26,307.74 1,301.70 3,426.56 5,146.92 920.20 9,900.05 4,286.76 389.92	2,793.12	\$ 29,100.86	\$	55,86
Ha Ex Pre Ro Ins Ba	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul acavate repare Rock Surface ock drill Setup stall Footing, Form and Pour base ackfill & Compact	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462. Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	36 cture count: for Tower Type D: Excavation (m3) 224.6 20 20 20 20 20 20 20 20 20 20 20 20 20	2 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58 4.47 2.00	6.5 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$ \$ 920.20 \$ \$ 9900.05 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$ \$ - \$	26,033.98 68,531.20 102,938.36 18,404.08 198,001.02 85,735.24 7,798.43 18,712.53	36 \$ 36 \$ 36 \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$	25,163.98 26,307.74 1,301.70 3,426.56 5,146.92 920.20 9,900.05 4,286.76 389.92 935.63	2,793.12	\$ 29,100.86	\$	55,86
Ha Ex Pre Ro Ins Ba	1-C42 Assembly and Installation of Found: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 aul acavate repare Rock Surface ock drill Setup stall Footing, Form and Pour base ackfill & Compact leanup	oundation Type D2-2 as Steel Weight (lb)	s per Dwg 505573-462. Grout (I) 215.6 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup Concrete Foundations	each Total struct 22-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.95 3.00 4.50 1.00 10.58 4.47 2.00	6.5 \$ 441.02 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ - \$ \$ 25,163.98 \$ Hole Dia. (mm) 57.0 \$ 1,301.70 \$ \$ 3,426.56 \$ \$ 5,146.92 \$ \$ 920.20 \$ \$ 9,900.05 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	905,903.35 526,154.83 26,033.98 68,531.20 102,938.36 18,404.08 198,001.02 85,735.24 7,798.43 18,712.53	36 \$ 36 \$ \$ \$ \$ \$ \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20	25,163.98 26,307.74 1,301.70 3,426.56 5,146.92 920.20 9,900.05 4,286.76 389.92 935.63	2,793.12	\$ 29,100.86	\$	55,86



S1-C43 Assembly and Installation of Four S1-C43 Assembly and Installation of Founda Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundation	ation Type E1-2 as per Dwg 508 Steel Weight (Ib) Grout (I) 4794 2: Foundation Haul Found Excavation Rock Foundations Concrete Foundation Backfill and Comps Site Cleanup Concrete Foundation	573-4622-42DD-002 Rebar (kg) 2.2 124.3 each each each each each each each each		Crew No. 16 1 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00 1.00	Hole Depth (n	7.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	Unit Cost Stole Dia. (mm) 57.0 \$ 1,321.96 \$ \$ \$ \$ \$ \$ \$ \$ \$	21,151.29 54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	Units \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 1	Unit Cost 25,390.51 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92 935.63	Materials	-	I Materials 44,68
S1-C43 Assembly and Installation of Four S1-C43 Assembly and Installation of Founda Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundate	ation Type E1-2 as per Dwg 508 Steel Weight (Ib) Grout (I) 4794 2: Foundation Haul Found Excavation Rock Foundations Concrete Foundation Backfill and Comps Site Cleanup Concrete Foundation	573-4622-42DD-002 Rebar (kg) 2.2 124.3 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 16 1	16 1 BackFill Vol(m3) 222.2 17 19 36 24 21	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	Hole Depth (n	7.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,151.29 54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	\$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	25,390.51 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92	<u> </u>	<u>u</u>	
S1-C43 Assembly and Installation of Foundard Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundard	ation Type E1-2 as per Dwg 508 Steel Weight (Ib) Grout (I) 4794 2: Foundation Haul Found Excavation Rock Foundations Concrete Foundation Backfill and Comps Site Cleanup Concrete Foundation	573-4622-42DD-002 Rebar (kg) 2.2 124.3 each each each each each each each each	6 for Tower Type E Excavation (m3) 224.6 16 16 16 16 16 16 16 16 16 1	1 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	lole Dia. (mm) 57.0 \$ 1,321.96 \$ \$ 3,426.56 \$ \$ 4,003.16 \$ \$ 920.20 \$ \$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	21,151.29 54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92	2,793.12 \$	28,183.63 \$	44,6
S1-C43 Assembly and Installation of Foundar Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundar	ation Type E1-2 as per Dwg 508 Steel Weight (Ib) Grout (I) 4794 2: Foundation Haul Found Excavation Rock Foundations Concrete Foundation Backfill and Comps Site Cleanup Concrete Foundation	573-4622-42DD-002 Rebar (kg) 2.2 124.3 each each each each each each each each	6 for Tower Type E Excavation (m3) 224.6 16 16 16 16 16 16 16 16 16 1	1 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	lole Dia. (mm) 57.0 \$ 1,321.96 \$ \$ 3,426.56 \$ \$ 4,003.16 \$ \$ 920.20 \$ \$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	21,151.29 54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92	2,130.12 φ	20,103.03	77,00
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Four	Steel Weight (Ib) Grout (I) 4794 2: Foundation Haul Found Excavation Rock Foundations Concrete Foundation Backfill and Compe Site Cleanup Concrete Foundation	Rebar (kg) 2.2 124.3 each each each each each each each each	Excavation (m3) 224.6 16 16 16 16 16 16 16 16 16	BackFill Vol(m3) 222.2 17 19 19 36 24 21 22	10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	57.0 \$ 1,321.96 \$ \$ 3,426.56 \$ \$ 4,003.16 \$ \$ 920.20 \$ \$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$	54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92			
2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Founda	4794 23 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundati Backfill and Compa Site Cleanup Concrete Foundations	2.2 124.3 each each each each each each each each	224.6 16 16 16 16 16 16 16 16 16 16 16 16	222.2 17 19 19 36 24 21	10.00 3.00 3.00 3.50 1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7.0 441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	57.0 \$ 1,321.96 \$ \$ 3,426.56 \$ \$ 4,003.16 \$ \$ 920.20 \$ \$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$	54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92			
Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Founda	Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundati Backfill and Comps Site Cleanup Concrete Foundations Concrete Foundations Concrete Foundations Type C1-2 as per Dwc	each each each each each each each each	16 16 16 16 16 16 16 16 16 16	17 19 19 36 24 21	3.00 3.00 3.50 1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	441.04 1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ 1,321.96 \$ 3,426.56 \$ \$ 4,003.16 \$ \$ 920.20 \$ \$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92			
Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundate	Found Excavation Found Excavation Rock Foundations Concrete Foundati Backfill and Comps Site Cleanup Concrete Foundations	each each s each each each each each each each each	16 16 16 16 16 16 16 16 16	19 36 24 21 22	3.00 3.50 1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$ \$ \$	1,143.76 1,143.76 920.20 935.63 959.25 194.96 935.63	\$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 935.63 \$ \$ - \$	54,824.96 64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92			
Rock drill Setup Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundation	Found Excavation Rock Foundations Concrete Foundati Backfill and Comps Site Cleanup Concrete Foundati	each each each each each each each each	16 16 16 16 16 16 16	36 24 21 22	1.00 10.80 4.47 2.00	\$ \$ \$ \$ \$	1,143.76 920.20 935.63 959.25 194.96 935.63	\$ 4,003.16 \$ 920.20 \$ \$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	64,050.54 14,723.26 161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	920.20 10,106.32 4,286.76 389.92			
Install Footing, Form and Pour base Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundation	Concrete Foundati Backfill and Comps Site Clearup Concrete Foundati	each each each each each each each each	16 16 16 16 16 16	24 21 22	10.80 4.47 2.00	\$ \$ \$ \$	935.63 959.25 194.96 935.63	\$ 10,106.32 \$ \$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ \$ - \$	161,701.16 68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$	10,106.32 4,286.76 389.92			
Backfill & Compact Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundation	Backfill and Comps Site Clearup Concrete Foundation ndation Type C1-2 as per Dwg	each each each each each each each each	16 16 16 16 16	21 22	4.47 2.00	\$ \$ \$ \$	959.25 194.96 935.63	\$ 4,286.76 \$ \$ 389.92 \$ \$ 935.63 \$ \$ - \$	68,588.19 6,238.74 14,970.02	16 \$ 16 \$ 16 \$	4,286.76 389.92			
Cleanup Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundation	Site Cleanup Concrete Foundati	each each each each each	16 16 16	22	2.00	\$ \$ \$	194.96 935.63	\$ 389.92 \$ 935.63 \$ - \$	6,238.74 14,970.02	16 \$ 16 \$ 16 \$	389.92			
Heat and Hoard S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Foundat	Concrete Foundation	each each each each	16 16 16			\$	935.63	\$ 935.63 \$ \$ - \$	14,970.02	16 \$				
S1-C44 Assembly and Installation of Four S1-C44 Assembly and Installation of Founda	ndation Type C1-2 as per Dwg	each each each	16 16	24	1.00	\$	-	\$ - \$		16 \$	025.62			
S1-C44 Assembly and Installation of Founda		each each	16			\$ \$ \$	-		-	10 0	933.03			
S1-C44 Assembly and Installation of Founda		each				\$		¢ ¢		16 \$	-			
S1-C44 Assembly and Installation of Founda			16			\$	-	φ - φ		16 \$	-			
S1-C44 Assembly and Installation of Founda								\$ - \$	-	16 \$	-			
S1-C44 Assembly and Installation of Founda								\$ 25,390.51 \$	406,248.16	\$	25,390.51			
S1-C44 Assembly and Installation of Founda														
			icture count:	24	ea			\$	591,974.87	\$	24,665.62 \$	2,793.12 \$	27,458.74 \$	67,0
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)	Rebar (kg)	Excavation (m3)		#Anchor Holes	_ ' '		lole Dia. (mm)						
2.43	4441 14	9.3 124.3	224.6	222.2	10.00		4.5	57.0						
Haul	Foundation Haul	each	24	17	2.85	\$	441.04		30,171.20		1,257.13			
Excavate	Found Excavation	each	24	19	3.00	\$	1,143.76		82,237.44	24 \$	3,426.56			
Prepare Rock Surface	Found Excavation	each	24	19	3.50	\$		\$ 4,003.16 \$	96,075.80	24 \$	4,003.16			
Rock drill Setup	Rock Foundations	each	24	36	1.00	\$		\$ 920.20 \$	22,084.89	24 \$	920.20			
Install Footing, Form and Pour base	Concrete Foundation		24	24	10.10	\$		\$ 9,446.25 \$	226,710.10	24 \$	9,446.25			
Backfill & Compact	Backfill and Compa		24	21	4.47	\$		\$ 4,286.76 \$	102,882.29	24 \$	4,286.76			
Cleanup	Site Cleanup	each	24	22	2.00	\$	194.96	\$ 389.92 \$	9,358.11	24 \$	389.92			
Heat and Hoard	Concrete Foundation		24	24	1.00	\$	935. 63		22,455.03	24 \$	935.63			
		each	24			\$		\$ - \$	-	24 \$	-			
		each	24			\$		\$ - \$	-	24 \$	-			
		each	24			\$	-	\$ - \$		24 \$	-			
								\$ 24,665.62 \$	591,974.87	\$	24,665.62			
		-												
S1-C45 Assembly and Installation of Four			icture count:	40	EA			\$	1,041,436.29	\$	26,035.91	2,793.12 \$	28,829.03 \$	111,7
S1-C45 Assembly and Installation of Founda								•						
Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43	Steel Weight (lb) Grout (l) 4551 16	Rebar (kg)	, ,	BackFill Vol(m3)	#Anchor Holes	Hole Depth (n		lole Dia. (mm)						
		5.9 124.3	224.6	222.2	10.00	Ι φ	5.0	57.0	54.005.00	100	4 077 00			
Haul	Foundation Haul	each	40	17	2.90	\$	441.04	, . ,	51,095.62	40 \$	1,277.39			
Excavate	Found Excavation	each	40	19	3.00	\$		\$ 3,426.56 \$	137,062.40	40 \$	3,426.56			
Prepare Rock Surface	Found Excavation	each	40	19	4.50	\$,	\$ 5,146.92 \$	205,876.72	40 \$	5,146.92			
Rock drill Setup	Rock Foundations	each	40	36	1.00	\$		\$ 920.20 \$	36,808.15	40 \$	920.20			
Install Footing, Form and Pour base	Concrete Foundation		40	24	10.32	\$		\$ 9,652.53 \$	386,101.02	40 \$	9,652.53			
Backfill & Compact	Backfill and Compa		40	21	4.47	3		\$ 4,286.76 \$	171,470.48	40 \$	4,286.76			
Cleanup	Site Cleanup	each	40	22	2.00	D		\$ 389.92 \$	15,596.85	40 \$	389.92			
Heat and Hoard	Concrete Foundation	each each	40	24	1.00	ф Ф		\$ 935.63 \$ \$ - \$	37,425.05	40 \$	935.63			
		each				\$		т т	=	40 \$	-			
		each	40			Φ Φ		, ,	-	40 \$ 40 \$	-			
		each	40			Ф	-	\$ - \\$ \$ 26,035.91 \$	1.041.436.29	40 \$	26,035.91			



	NALCOR 350 kV HVdc Line Const	truction Front 2 (Long Ran	<mark>ge Mountain</mark> s)				Cre	ew Cost							Total Unit Cost		
Payment				Units		Hours per									Manhours and	L	
tem	Description			Total	Crew No.	unit	Hourly	/ Rate	Unit Cost	Subtotal	Units	U	Jnit Cost	Materials	Materials	Total Materials	
/C46	S1 C16 Accombly and Installation of E	oundation Type D1 2 co nor D	hua E0EE72 Total str	ucturo count:	20	EA				\$ 704,591	40	¢	25,163.98 \$	2,793.12	¢ 27.057.10	e e	78,207.36
V::C46	S1-C46 Assembly and Installation of Fo S1-C46 Assembly and Installation of Four			ucture count:	D1 (surface rock)					\$ 704,591	.49	Þ	25,163.98 \$	2,793.12	\$ 27,957.10	Þ	78,207.36
	Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)			,	#Anchor Holes	Hole Depth (m)	-	Hole Dia. (mm)								
	2.43	4683	165.9 124.3		222.2	10.00	5.0		57.0								
	Haul	Foundation H				2.95	\$	441.04		\$ 36,447	57 28	3 \$	1,301.70				
	Excavate	Found Excav				3.00	\$	1,143.76				3 \$	3,426.56				
	Prepare Rock Surface	Found Excav		2		3.50	\$	1,143.76				3 \$	4,003.16				
	Rock drill Setup	Rock Founda				1.00	\$		\$ 920.20			3 \$	920.20				
	Install Footing, Form and Pour base	Concrete For				10.58	\$		\$ 9,900.05				9,900.05				
	Backfill & Compact	Backfill and 0				4.47	\$		\$ 4,286.76				4,286.76				
	Cleanup	Site Cleanup	· .			2.00	\$	194.96				3 \$	389.92				
	Heat and Hoard	Concrete For		2		1.00	\$		\$ 935.63			3 \$	935.63				
			each	2			\$		\$ -			3 \$	-				
			each	2			\$	-	\$ -	\$	- 28		_				
			each	2			\$	- :	\$ -	\$	- 28		-				
			each	2	3		\$	- :	\$ -	\$		3 \$	-				
									\$ 25,163.98	\$ 704,591	.49	\$	25,163.98				
47	S1-C47 Assembly and Installation of Fo	oundation Type D2-2 as per D	wg 505573- Total str	ucture count:	20	EA				\$ 526,154	.83	\$	26,307.74 \$	2,793.12	\$ 29,100.86	\$	55,862.4
	S1-C47 Assembly and Installation of Four	ndation Type D2-2 as per Dwg	505573-4622-42DD-002	6 for Tower Type	D2 (surface rock)	_											•
	Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	F	Hole Dia. (mm)								
	2.43	4683	165.9 124.3	224.6	222.2	10.00	5.0	0	57.0	•							
	Haul	Foundation F	taul each	2	17	2.95	\$	441.04	\$ 1,301.70	\$ 26,033	3.98 20	\$	1,301.70				
	Excavate	Found Excav	ration each	2	19	3.00	\$	1,143.76	\$ 3,426.56	\$ 68,531	.20 20	\$	3,426.56				
	Prepare Rock Surface	Found Excav	ration each	2	19	4.50	\$	1,143.76	\$ 5,146.92	\$ 102,938		\$	5,146.92				
	Rock drill Setup	Rock Founda	ations each	2	36	1.00	\$	920.20	\$ 920.20	\$ 18,404	.08 20	\$	920.20				
	Install Footing, Form and Pour base	Concrete For	undations each	2	24	10.58	\$	935.63	\$ 9,900.05	\$ 198,001	.02 20	\$	9,900.05				
	Backfill & Compact	Backfill and 0	Compact each	2	21	4.47	\$	959.25	\$ 4,286.76	\$ 85,735	5.24 20	\$	4,286.76				
	Cleanup	Site Cleanup	each	2	22	2.00	\$	194.96	\$ 389.92	\$ 7,798	3.43 20	\$	389.92				
	Heat and Hoard	Concrete For	undations each	2	24	1.00	\$	935.63	\$ 935.63	\$ 18,712	2.53 20	\$	935.63				
			each	2	O O		\$	-	\$ -	\$		\$	-				
			each	2	O Company		\$	-	\$ -	\$	- 20	\$	-				
			each	2	0		\$		\$ -	\$	- 20	\$	-				
			<u>.</u>						\$ 26,307.74	\$ 526,154	.83	\$	26,307.74				
									_								
	S1-C48 Assembly and Installation of Fo				20	EA				\$ 507,810	.20	\$	25,390.51 \$	2,793.12	\$ 28,183.63	\$ \$	55,862.4
	S1-C48 Assembly and Installation of Four	ndation Type E1-2 as per Dwg	505573-4622-42DD-002	6 for Tower Type	E1 (surface rock)												
	Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)		Excavation (m3)			Hole Depth (m)		łole Dia. (mm)								
	2.43	4794	165.9 124.3		222.2	10.00	5.0		57.0								
	Haul	Foundation F	_{laul} each			3.00	\$	441.04				\$	1,321.96				
	Excavate	Found Excav				3.00	\$	1,143.76				\$	3,426.56				
	Prepare Rock Surface	Found Excav		2		3.50	\$	1,143.76				\$	4,003.16				
	Rock drill Setup	Rock Founda		2		1.00	\$		\$ 920.20			\$	920.20				
	Install Footing, Form and Pour base	Concrete For				10.80	\$		\$ 10,106.32				10,106.32				
	Backfill & Compact	Backfill and 0				4.47	\$	959.25					4,286.76				
	Cleanup	Site Cleanup				2.00	\$	194.96				\$	389.92				
	Heat and Hoard	Concrete For				1.00	\$	935.63				\$	935.63				
			each				\$		\$ -			\$	-				
			each		0		\$		\$ -			\$	-				
			each	2	0		\$	-	\$ -		- 20	\$	-				
							_		\$ 25,390.51	\$ 507,810	1.20	\$	25,390.51				



	NALCOR 350 kV HVdc Line Construction From	ont 2 (Long Range Mountair					Crew	Cost						Total Unit Cost		
Payment			Units			Hours per								Manhours and		
Item	Description		Ţ	Γotal	Crew No.	unit	Hourly R	ate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::C49	S1-C49 Installation and Testing of 25M Mechanical	I Book Anchor as nor design	Total structure co	unt.	9173	LM				\$ 1,735,557	.74 \$	189.20	\$ 23.48	\$ 212.69	e e	215,413.78
VC49	S1-C49 Installation and Testing of 25M Mechanical Re	ock Anchor as per design drawin			9173	LIVI				φ 1,733,33	./4	109.20	φ 25.40	φ 212.03	Ψ	213,413.76
	or one metallianer and recurry or zero meetilanear re	Grout (I)	Grout (unit)			#Anchor Holes	Hole Depth (m)	Н	ole Dia. (mm)							
		2.6	0.3			1.00	1.0		50.0							
	Drill and Install Rock Anchors	Rock Foundations	each	9173	36	0.14	\$	920.20 \$		\$ 1,193,74	.77 9173 \$	130.14				
	Grout Anchor	Grout Crew	each	9173	23	0.15	\$	393.78 \$		\$ 541,81		59.07				
			each	9173			\$	- \$		Ψ	9173 \$	-				
			each each	9173 9173			\$	- \$			- 9173 \$ - 9173 \$		•			
			each	9173			\$	- \$ - \$		T	- 9173 \$					
			each	9173			\$	- \$		·	- 9173 \$					
			each	9173			\$	- \$		*	9173 \$					
			each	9173			\$	- \$			- 9173 \$	-				
			each	9173			\$	- \$		\$	9173 \$					
								\$	189.20	\$ 1,735,557	.74 \$	189.20	•			
															_	
V::C50	S1-C50 Installation and Testing of 29M Mechanical	Rock Anchor as per design	Total structure co		276	LM				\$ 54,65°	.89	198.01	\$ 30.52	\$ 228.53	\$ \$	8,423.27
	S1-C50 Installation and Testing of 29M Mechanical Re			ecification												
		Grout (I) 3.3	Grout (unit)			#Anchor Holes	Hole Depth (m)	Н	ble Dia. (mm) 57.0							
	Drill and Install Rock Anchors	3.3 Rock Foundations	each	276	36	0.15	\$	920.20 \$		\$ 38,349	.57 276 \$	138.95				
	Grout Anchor	Rock Foundations Grout Crew	each	276	23	0.15	S	393.78 \$		\$ 16,302		59.07	•			
	Grout Androi	Grout Crew	each	276	20	0.13	\$				- 276 \$	-				
			each	276			\$				- 276 \$	_				
			each	276			\$			\$	- 276 \$	_				
			each	276			\$	- \$	-	\$	- 276 \$	-				
			each	276			\$	- \$	-	\$	- 276 \$	-				
			each	276			\$	- \$	_	\$	- 276 \$		•			
			each	276			\$			<u>'</u>	- 276 \$		•			
			each	276			\$	- \$		T	- 276 \$					
								\$	198.01	\$ 54,65	.89 \$	198.01				
V::C51	S1-C51 Installation and Testing of 32M Mechanical	I Book Ancher on nor decign	Total structure co	unt:	0	LM				\$	- \$	214.99	\$ 37.28	\$ 252.27	· · ·	
VC51	S1-C51 Installation and Testing of 32M Mechanical Re	ock Anchor as per design drawin			U	LIVI				Ψ	- φ	214.33	φ 37.20	φ 232.21	Ψ	-
	2. 23. Modification and 135ting of 52m Modification	Grout (I)	Grout (unit)	2.11041/011		#Anchor Holes	Hole Depth (m)	Н	ole Dia. (mm)							
		4.1	0.4			1.00	1.0		63.0							
	Drill and Install Rock Anchors	Rock Foundations	each	0	36	0.16	\$	920.20 \$		\$	- 0 \$	_	•			
	Grout Anchor	Grout Crew	each	0	23	0.18	\$	393.78 \$		\$	- 0 \$	-				
			each	0			\$	- \$		<u>'</u>	- 0 \$					
			each	0			\$	- \$		τ	- 0 \$					
			each	0			\$	- \$		-	- 0 \$					
			each	0			\$	- \$		*	- 0 \$					
			each each	0			\$	- \$		T	- 0 \$ - 0 \$					
			each	0			\$	<u>-</u> \$		<u>*</u>	- 0 \$					
			each	0			\$	- \$		*	- 0 \$					
							-	\$		Ť	- \$	-				



	NALCOR 350 kV HVdc Line Construction F	ront 2 (Long Range Mountair	<mark>n</mark> s)			Crew Cost						Total Unit Cost	
Payment		, g g	Units		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
													_
V::C52	S1-C52 Installation and Testing of 43M Mechanic		Total structure count:		LM			\$ 5,610,768.6	7	232.73	\$ 46.03	\$ 278.76	\$ 1,109,632.94
	S1-C52 Installation and Testing of 43M Mechanical			ation									
		Grout (I)	Grout (unit)			Hole Depth (m)	Hole Dia. (mm)	•					
	Drill and Install Deals Anahara	5.0	0.5	4400	1.00	1.0	70.0	¢ 2740 420 7	2 24400 6	152.00			
	Drill and Install Rock Anchors	Rock Foundations		4108 36 4108 23	0.17	\$ 920.20	\$ 153.98	\$ 3,712,138.7	3 24108 \$ 4 24108 \$	153.98			
	Grout Anchor	Grout Crew		4108 23 4108	0.20	\$ 393.78			24108 \$				
				4108		-	\$ - \$ -	Ÿ	24108 \$	-			
				4108		- S	\$ - \$ -	\$ -					
				4108		\$ <u>-</u>	\$ -	\$ -					
				4108		\$ -	\$ -	Ÿ	24108 \$	_			
				4108		\$ -	\$ -	\$ -		_			
				4108		\$ -	\$ -	_		_			
				4108		\$ -		\$ -	24108 \$				
							\$ 232.73			232.73			
V::C53	S1-C53 Installation and Testing of 57M Mechanic	cal Rock Anchor as per design	Total structure count:	145	LM			\$ 37,158.9	6 \$	256.27	\$ 64.71	\$ 320.98	\$ 9,383.10
	S1-C53 Installation and Testing of 57M Mechanical	Rock Anchor as per design drawin	gs and technical specific	ation	_								
	•	Grout (I)	Grout (unit)		#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
		7.0	0.6		1.00	1.0	83.0						
	Drill and Install Rock Anchors	Rock Foundations	each	145 36	0.18	\$ 920.20							
	Grout Anchor	Grout Crew	each	145 23	0.23	\$ 393.78		\$ 12,846.9	4 145 \$	88.60			
			each	145		\$ -	\$ -	\$		-			
			each	145		\$ -	\$ -	\$ -		-			
			each	145		\$ -	\$ -	\$ -		-			
			each	145		\$ -	\$ -	\$ -		-			
			each	145	4	\$ -	\$ -	\$ -					
			each	145		\$ -	\$ -	\$ -		-			
			each	145		\$ -	\$ -	\$ -		-			
			each	145		-	-	\$ -					
			each	145		-	\$ - \$ 256.27	\$ - \$ 37,158.9		256.27			
			381 97.5300	7652			Φ 230.21	φ 31,100.9	Φ	230.27			
V::C54	S1-C54 Installation and Testing of 64M Mechanic	cal Rock Anchor as ner design	Total structure count:	9	LM			\$ 2,457.3	6 \$	273.04	\$ 76.09	\$ 349.13	\$ 684.78
V034	S1-C54 Installation and Testing of 64M Mechanical							Ψ 2,401.0	Ψ	273.04	Ψ 10.03	ψ 5 4 5.15	ψ 004.70
	or our modulation and rooting or o his modulation	Grout (I)	Grout (unit)	dion	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)						
		8.3	0.7		1.00	1.0	90.0	•					
	Drill and Install Rock Anchors	Rock Foundations	each	9 36	0.19	\$ 920.20		\$ 1,571.3	7 9 \$	174.60			
	Grout Anchor	Grout Crew	each	9 23	0.25	\$ 393.78		\$ 886.0	0 9 \$	98.44			
			each	9		\$ -	\$ -	\$ -		_			
			each	9		\$ -	\$ -	\$ -		_			
			each	9		\$ -	\$ -	\$ -					
			each	9		\$ -	\$ -	\$ -					
			each	9		\$ -	\$ -	\$ -		-			
			each	9		\$ -	\$ -	\$ -		-			
			each	9		\$ -	\$ -	\$ -					
			each	9		-	\$ -	\$ -	- 7				
							\$ 273.04	\$ 2,457.3	\$	273.04			



NALCOR 350 kV HVdc Line Constru	uction Front 2 (Long Range Mounta					Crew Cost					Total U		
De a cuintia u		L	Jnits		Hours per			0	1.1			ours and	I NA -4: -1 -
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials Ma	aterials Tota	l Materials
H-Pile Foundations													
S1-C55 Design, Assembly and Installation	on of Foundation Type A1-3 as per Dwg	Total structi	ure count:	3	EA			\$ 7.060	.19	\$ 2,353.40 \$	44,266.30 \$	46,619.70 \$	132,7
S1-C55 Design, Assembly and Installation	of Foundation Type A1-3 as per Dwg 505	573-4622-42DD	-0037 for Towe		ng supply and	installation of steep cap.		1,000		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,=00.00	,	,.
Site Preparation	Site Preparation	each	3	_	2.00	\$ 675.1				\$ 1,350.24			
supervisor	Supervisory	each	3		6.00	\$ 167.1				\$ 1,003.15			
		each each	3 3			\$ - \$ -	\$ - \$ -			\$ - \$ -			
		each	3			\$ -		\$		\$ -			
		545.1				*		\$ 7,060		\$ 2,353.40			
									7				
S1-C56 Design, Assembly and Installation	on of Foundation Type A2-3 as per Dwg	Total structi	ure count:	1				\$ 2,353	.40	\$ 2,353.40 \$	44,266.30 \$	46,619.70 \$	44,2
S1-C56 Design, Assembly and Installation	of Foundation Type A2-3 as per Dwg 505	573-4622-42DD	-0037 for Towe	er Type A2 includir	ng supply and	installation of steep cap.							
Site Preparation		each	1	2	2.00	\$ 675.1	2 \$ 1,350.24	\$ 1,350	24 1	\$ 1,350.24			
supervisor	Site Preparation Supervisory	each	1	29	6.00	\$ 167.1				\$ 1,003.15			
Super visor	Supervisory	each	<u>'</u> 1	2.5	0.00	\$ -	\$ -			\$ -			
		each	1			\$ -	\$ -			\$ -			
		each	1			\$ -	\$ -	\$		\$ -			
		each	1			-				\$ -			
		each	1			\$ -/				\$ -			
							\$ 2,353.40	\$ 2, <u>353</u>	.40	\$ 2,353.40			
S1-C57 Design, Assembly and Installation	on of Foundation Type A2 2 as nor Dwg	Total etructi	uro count:	0	EA			\$		\$ 2,353.40 \$	44,266.30 \$	46,619.70 \$	
S1-C57 Design, Assembly and Installation	of Foundation Type A3-3 as per Dwg 505	10tal Structi 573-4622-42DD	ure count. 1-0037 for Towe			installation of steen can		4		φ 2,333.40 φ	44,200.30 \$	40,019.70	
or our besign, resembly and metallation	or roundation rype 7to o do per bwg ood	010 4022 4200											
					.9 oappi) a.i.a	installation of steep cap.							
Site Preparation	Site Preparation	each	0		2.00	\$ 675.1	2 \$ 1,350.24	\$		\$ -			
Site Preparation supervisor	Site Preparation Supervisory	each		2			9 \$ 1,003.15	\$	- 0	\$ -			
'		each each	0 0	2 29	2.00	\$ 675.1	9 \$ 1,003.15	\$ \$	- <u>0</u>	\$ - \$ -			
'		each each each	0 0 0 0	2 29	2.00	\$ 675.1	9 \$ 1,003.15 \$ - \$ -	\$ \$ \$	- 0 - 0 - 0	\$ - \$ - \$			
'		each each each each	0 0 0 0	2 29	2.00	\$ 675.1	9 \$ 1,003.15 \$ - \$ - \$ -	\$ \$ \$	- 0 - 0 - 0	\$ - \$ - \$ -			
'		each each each each each	0 0 0 0	2 29	2.00	\$ 675.1	9 \$ 1,003.15 \$ - \$ - \$ - \$ -	\$ \$ \$ \$	- 0 - 0 - 0 - 0	\$ - \$ - \$ - \$ -			
'		each each each each	0 0 0 0 0	2 29	2.00	\$ 675.1	9 \$ 1,003.15 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$	- 0 - 0 - 0 - 0	\$ - \$ - \$ -			
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	kV HVdc Line Construction Front 2 (Long Range Mountain		.,			Crew Cost						Total Unit Cost		
nt Description		Ur	nits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
			<u> </u>		•	riourly reaso						1		
S1-C60 Design, S1-C60 Design,	Assembly and Installation of Foundation Type B2-3 as per Dwg Assembly and Installation of Foundation Type B2-3 as per Dwg 50557	Total structu 73-4622-42DD-	re count: 0046 for Tower	4 Type B2 includii	EA ng supply and in	stallation of steep cap.		\$ 21,451.42		5,362.85	\$ 208,457.28	\$ 213,820.13	\$	833,82
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Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12			0					
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S1-C63 Design, A Site Preparation supervisor S1-C64 Design,	Assembly and Installation of Foundation Type D1-3 per Dwg 505573-	each each each each Total structu 4622-42DD-004 each each each each each each each eac	4 4 4 4 4 4 4 6 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	pe D1 including 2 29	supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85	\$ - \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	5 - 5,362.85 5 - 5,362.85 6	\$ 208,457.28	\$ 213,820.13 \$ 213,820.13		
S1-C63 Design, A Site Preparation supervisor S1-C64 Design,	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each Total structu 4622-42DD-004 each each each each each each each eac	4 4 4 4 4 4 4 6 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	pe D1 including 2 29 0 Type D2 includi	2.00 24.00 EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85	\$ - \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	5 - 5,362.85 5 - 5,362.85 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ 208,457.28			
S1-C63 Design, A Site Preparation supervisor S1-C64 Design, S1-C64 Design, A	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each Total structu 4622-42DD-004 each each each each each each each eac	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pe D1 including 2 29 0 Type D2 includi	2.00 24.00 EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85	\$ - \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	5 - 5,362.85 5 - 5,362.85 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	\$ 208,457.28			
S1-C63 Design, A Site Preparation supervisor S1-C64 Design, S1-C64 Design, A Site Preparation	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each each each each each each each	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pe D1 including 2 29 0 Type D2 includi 2 29	EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85 \$ 5,362.85	\$ - \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	5 - 5,362.85 5 - 5,362.85 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ 208,457.28			
S1-C63 Design, A Site Preparation supervisor S1-C64 Design, S1-C64 Design, A Site Preparation	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each each Fotal structu 4622-42DD-004 each each each each each each each eac	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pe D1 including 2 29 0 Type D2 includi 2 29	EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ - \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ -	\$ - \$ - \$ 21,451.42 \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	5 - 5,362.85 5 - 5,362.85 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ 208,457.28			
S1-C63 Design, A Site Preparation supervisor S1-C64 Design, S1-C64 Design, A Site Preparation	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each each Fotal structu 4622-42DD-004 each each each each each each each eac	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pe D1 including 2 29 0 Type D2 includi 2 29	EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 5,362.85 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85 \$ 5,362.85 \$ 4,012.61 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ 208,457.28			
S1-C63 Design, A Site Preparation supervisor S1-C64 Design, S1-C64 Design, A Site Preparation	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each each each for a structur each each each each each each each eac	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pe D1 including 2 29 0 Type D2 includi 2 29	EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 5,362.85 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85 \$ 1,350.24 \$ 4,012.61 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0	5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ 208,457.28			
S1-C63 Design, A Site Preparation supervisor S1-C64 Design, S1-C64 Design, A Site Preparation	Assembly and Installation of Foundation Type D1-3 per Dwg 505573- Site Preparation Supervisory Assembly and Installation of Foundation Type D2-3 as per Dwg Assembly and Installation of Foundation Type D2-3 as per Dwg 5055	each each each each each Fotal structu 4622-42DD-004 each each each each each each each eac	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pe D1 including 2 29 0 Type D2 includi 2 29	EA ing supply and insta	\$	\$ - \$ - \$ 5,362.85 \$ 5,362.85 \$ 4,012.61 \$ - \$ - \$ - \$ 5,362.85 \$ 5,362.85 \$ 4,012.61 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ 21,451.42 \$ - \$ 21,451.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ 208,457.28			



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mon				Crew Cost						Total Unit Cost		
ayment em	Description	Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per I S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per Dwg	Owg Total structure count:	4	EA			\$ 21,451.42		5,362.85		\$ 213,820.13		833,829.1
	Site Preparation Site Preparation	each	4 2	2.00	\$ 675.12	\$ 1,350.24	\$ 5,400.98	4 \$	1,350.24				
	Supervisor Supervisory	each	4 29	24.00		\$ 4,012.61	\$ 16,050.44	4 \$	4,012.61				
	очротутот зарычалу	each	4	21.00		\$ -	\$ -	4 \$	-				
		each	4			\$ -	\$ -	4 \$	_				
		each	4		\$ -	\$ -	\$ -	4 \$	-				
		each	4		\$ -	\$ -	\$ -	4 \$	-				
		each	4		\$ -	\$ -	\$ -	4 \$	-				
		each	4		\$ -	\$ -	\$ -	4 \$	-				
		each	4		\$ -	\$ -	\$ -	4 \$	-				
		•				\$ 5,362.85	\$ 2 1,451.42	\$	5,362.85				
				_									
66	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as po	er the Total structure count:	720	LM			\$ -	\$	- !	\$ 468.58	\$ 468.58	\$	337,380
	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as per the	-		n in bog not cor	isidered)								
		each 72	20		-	\$ -		720 \$	-				
		each 72	20		-	\$ -	-	720 \$	-				
			20		,		-	720 \$	-				
		each 72			\$ -/-		\$	720 \$	-				
			20		\$ -	\$ -	\$ -	720 \$	-				
		each 72			\$ -	\$ -	-	720 \$	-				
			20		\$ -		\$ -	720 \$	-				
		each 72	20		\$ -	*	\$ -	720 \$	-				
		each 72	20		\$ -	\$ -	-	720 \$	-				
						\$ -	\$ -	\$	-				
67	S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT	Total structure count:	2040	LM			\$ -	\$	- 3	\$ 580.69	\$ 580.69) \$ 1,	184,606
		each 20	40		\$ -	\$ -	\$ -	2040 \$	=				
		each 204			\$ -	\$ -	\$ -	2040 \$	-				
		each 204			\$ -	\$ -	\$ -	2040 \$	-				
		each 204			\$ -	\$ -	\$ -	2040 \$	-				
		each 204			\$ -	\$ -	\$ -	2040 \$	-				
		each 204			\$	\$ -	\$ -	2040 \$	-				
		each 204			\$ -	\$ -	\$ -	2040 \$	=				
		each 204			\$ -	\$ -	\$ -	2040 \$	-				
		each 204			\$ -		\$ -	2040 \$	=				
							\$ -	\$	-				
					'								



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	<mark>n</mark> s)				Crew Cost						Total Unit Cost	
Payment		Units	T		Hours per			0.14.4.1				Manhours and	l .
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V-H12 V::C68	Bog and Poor Soil S1-C68 Supply and Installation of Cribs for excavation protection of tower types S1-C68 Supply and Installation of Cribs for excavation protection of tower types A1, A2	Total structure c o 2, A3, A4, B1, B2, C	count: C1, C2, D1, D2,	6700 E1 for any typ	M2 be of Foundation	as per Dwg 505573-462	2-42DD-0069 and	2,962,865.07	\$	442.22 \$	254.37	\$ 696.59	\$ 1,704,268.95
	Hauling	each	6700	1	0.30	\$ 441.04	\$ 132.31 \$	886,494.39	6700 \$	132.31			
	Assembly Grillage Installation	each	6700	20	0.13	\$ 1,002.72				125.34			
	Installation Grillage Installation	each	6700	20	0.05	\$ 1,002.72	\$ 50.14 \$			50.14			
	extra excavation and De-watering Found Excavation	each	6700	19	0.10	\$ 1,143.76	\$ 114.38 \$			114.38			
	Remove Top section Grillage Installation	each	6700	20	0.02	\$ 1,002.72				20.05			
V-H13 V::C69	Earthwork S1-C69 Transportation of native backfill S1-C69 Transportation of native backfill	Total structure co	ount:	1000	KM		\$ 442.22 \	2,962,865.07	\$	49.00 \$	-	\$ 49.00	-
	Tree in									1			
	Hauling Foundation Haul	each	1000	17	0.11	\$ 441.04			1000 \$	49.00			
		each each	1000			\$ -	\$ - \$ \$ - \$		1000 \$	-			
		each	1000			\$	\$ - \$ \$ - \$		1000 \$				
		each	1000			\$ -	\$ - \$		1000 \$	-			
		each	1000			\$ -	\$ - \$		1000 \$	-			
		each	1000			\$ -	\$ - \$	-	1000 \$	_			
		each	1000			\$ -	\$ - \$		1000 \$	-			
		each	1000			\$ -	\$ - \$	-	1000 \$	-			
							\$ 49.00 \$	49,004.00	\$	49.00			
V::C70	S1-C70 Supply and transportation of approved fill from an alternate S1-C70 Supply and transportation of approved fill from an alternate source/processed	Total structure co		14000	M3 * KM		49.00	49,004.66 376,185.86	\$	49.00 26.87	106.61	\$ 133.48	\$ 1,492,470.00
V::C70			el 14000	14000 46	M3 * KM	\$ 241.83	\$	376,185.86 376,185.86	\$ 14000 \$		106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	material/road grave	14000 14000		A 4	\$ 241.83 \$ -	\$ 26.87 \$ \$ - \$	376,185.86 376,185.86	\$ 14000 \$ 14000 \$	26.87	106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	material/road grave	14000 14000 14000		A 4	\$ 241.83 \$ -	\$ 26.87 \$ \$ - \$ \$ - \$	376,185.86 376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$	26.87 \$	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each	14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$	376,185.86 376,185.86 	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87 \$	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each each	14000 14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	376,185.86 376,185.86 	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87 \$ 26.87	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each each each each	14000 14000 14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$	376,185.86 376,185.86 	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87 \$ 26.87	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	376,185.86 376,185.86 	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87 \$ 26.87	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$	376,185.86 376,185.86 	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87 \$ 26.87	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$	376,185.86 376,185.86 - - - - - - - - - - - - -	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87	5 106.61	\$ 133.48	\$ 1,492,470.00
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/processed	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000		A 4	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	376,185.86 376,185.86 	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000	46	0.11	\$ 241.83 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	376,185.86 376,185.86 376,185.86 376,185.86 376,185.86 376,185.86 4,143,759.55	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000	46	0.11 M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$	376,185.86 376,185.86 376,185.86 376,185.86 376,185.86 376,185.86 4,143,759.55	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ 1000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$	376,185.86 376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ 1000 \$ 1000 \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$	376,185.86 376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ \$ 1000 \$ 1000 \$ 1000 \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 1000 1000 1000 1000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$	376,185.86 376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ \$ \$ 1000 \$ 1000 \$ 1000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	26.87 \$ 26.87 26.87 1,143.76 \$			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 1000 1000 1000 1000 1000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$	376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	26.87 \$ 26.87 26.87 1,143.76 \$ 1,143.76			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 1000 1000 1000 1000 1000 1000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$	376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 1000 1000 1000 1000 1000 1000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ \$ \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$	26.87 \$ 26.87			
	S1-C70 Supply and transportation of approved fill from an alternate source/processed Hauling Camp Haul S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	each each each each each each each each	14000 14000 14000 14000 14000 14000 14000 14000 14000 14000 1000 1000 1000 1000 1000 1000	46	M3	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 26.87 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$	376,185.86 376,185.86	\$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ 14000 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$ 1000 \$	26.87 \$ 26.87			



	NALCOR 350 kV HVdc Line Construction Front 2 (Long	g Range Mountains					Crew Cost						Total Unit Cost	
/ment			l	Jnits		Hours per							Manhours and	
n	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
14	S1-D Tower Assembly and Erection (S1-Dx)			Tower Settir	ng Ratio	0.00	Helicopter	100%	Crane					
15	Assembly and Erection of Suspension Tower Type	Δ "Δ1"				-								
	S1-D1 Assembly and Erection of Suspension Tower Type "A1		Total struct	ure count:	0	EA			\$ -	- \$	46,415.93	٠ -	\$ 46,415.93	S
	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0"								Ψ	Ψ	40,410.00	Ψ	Ψ +0,+10.00	•
	· · · · · · · · · · · · · · · · · · ·	Total Tower Height(ft) =		Section Weight (lb) =	13999									
	lou p u	Site Preparation	each	0		2.00	\$ 675.12 \$	1,350.24	\$ -	- 0 \$	_			
		Hauling	each	0	_	7.37	\$ 441.04 \$	3,250.98		0 \$	_	,		
		Blocking Crew	each	0	3	2.00	\$ 281.84 \$	563.68			-			
	A	Lattice Assembly	each	0	4	24.00	\$ 1,183.92 \$		1	- 0 \$	-	,		
	1	Guy Install	each	0	39	2.00	\$ 1,258.65 \$	2,517.30	\$ -	- 0 \$	-	•		
		HL Helicopter	each	0	27	0.00	\$ 21,899.72 \$	-	\$ -	- 0 \$	_	•		
	Crane Set	Y- Tower Erection	each	0	40	2.50	\$ 1,482.09 \$	3,705.24	\$ -	- 0 \$	-			
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00	\$ -	- 0 \$	-			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64 \$			- 0 \$				
	Hang Travellers	Hang Travellers	each	0	•	1.50	\$ 1,444.07 \$	2,166.10		- 0 \$	-			
		Tie -in	each	0	12	2.00	\$ 676.30 \$			- 0 \$	=			
	Total Cost =	\$ 2.877	per pound				\$	46,415.93	\$	- \$	-			
						_								
	S1-D2 Assembly and Erection of Suspension Tower Type "A1				0	EA			\$	- \$	47,467.99	\$ -	\$ 47,467.99	\$
	S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.													
		Total Tower Height(ft) =		Section Weight (lb) =	14465							•		
		Site Preparation	each	0	_	2.00	\$ 675.12 \$			- 0 \$	-	,		
		Hauling	each	0	-	7.62	\$ 441.04 \$			- 0 \$	-			
		Blocking Crew	each	0	Ü	2.00	\$ 281.84 \$			- 0 \$	-			
		Lattice Assembly	each	0	7	24.79	\$ 1,183.92 \$	29,354.54		- 0 \$	-			
	,	Guy Install	each	0	00	2.00	\$ 1,258.65 \$	2,517.30		- 0 \$	-	•		
		HL Helicopter	each	0		0.00	\$ 21,899.72 \$	- 0.705.04	*	- 0 \$	-	•		
	DI 1.7	Y- Tower Erection	each	0		2.50	\$ 1,482.09 \$			- 0 \$	-	•		
		Tower Plumb	each	0		2.00	\$ 913.00 \$			- 0 \$	-			
		Haul Travellers&Glass	each	0		2.00	\$ 636.64 \$.,=		- 0 \$	-			
	U	Hang Travellers	each each	0		1.50 2.00	\$ 1,444.07 \$ 676.30 \$	2,166.10 1,352.60		- 0 \$ - 0 \$	-			
		Tie -in 2.857	per pound	0	12	2.00	\$ 676.30 \$ \$ - \$				-			
	Total Cost –	φ 2.001	per pourid				ф - ф	47,467.99	т		-			
							D	47,407.99	Φ -	- \$	=			
03	S1-D3 Assembly and Erection of Suspension Tower Type "A1	+ 3" as par dwa	Total struct	ure count:	0	EA			¢ .	- \$	48,061.33	¢ -	\$ 48,061.33	¢
	S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3"								Ψ	Ψ	40,001.33	Ψ -	Ψ 40,001.00	Ψ
	· · · · · · · · · · · · · · · · · · ·	Total Tower Height(ft) =		Section Weight (lb) =	14727									
	lou p #	Site Preparation	each	0	2	2.00	\$ 675.12 \$	1,350.24	\$ -	- 0 \$	_			
	I		each	0	1	7.75	\$ 441.04 \$		*	- 0 \$	_			
	lHaul	Hauling	each				Ψ		:					
	0 / 01 /	Hauling Blocking Crew	each	0	3	2.00	\$ 281.84 \$	563.68	\$ -	- 01.5	-			
	Setup Blocks			0	3 4	2.00 25.24	\$ 281.84 \$ \$ 1,183.92 \$		-	- 0 \$ - 0 \$	-			
	Setup Blocks a Assemble Tower	Blocking Crew	each					563.68 29,886.96 2,517.30	\$ -					
	Setup Blocks Assemble Tower Install Guy Strand	Blocking Crew Lattice Assembly	each each	0	4	25.24	\$ 1,183.92 \$	29,886.96	\$ \$	- 0 \$ - 0 \$	-			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Blocking Crew Lattice Assembly Guy Install	each each each	0	4 39	25.24 2.00	\$ 1,183.92 \$ \$ 1,258.65 \$	29,886.96 2,517.30	\$ - \$ - \$ -	- 0 \$ - 0 \$	-			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each	0	4 39 27	25.24 2.00 0.00	\$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$	29,886.96 2,517.30 -	\$ - \$ - \$ -	- 0 \$ - 0 \$ - 0 \$	- - -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each	0	4 39 27 40	25.24 2.00 0.00 2.50 2.00	\$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$	29,886.96 2,517.30 - 3,705.24 1,826.00	\$ - \$ - \$ - \$ - \$ -	- 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Blocking Crew Lattice Assembly Guy Install HL. Helicopter Y- Tower Erection Tower Plumb	each each each each each each	0 0 0 0	4 39 27 40 41 7	25.24 2.00 0.00 2.50 2.00	\$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$	29,886.96 2,517.30 - 3,705.24 1,826.00 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ -	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Blocking Crew Lattice Assembly Guy Install HL. Hellicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each	0 0 0 0 0	4 39 27 40 41 7 8	25.24 2.00 0.00 2.50 2.00 2.00	\$ 1,183.92 \$ 1,258.65 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ \$ 636.64 \$	29,886.96 2,517.30 - 3,705.24 1,826.00 1,273.27	\$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each each	0 0 0 0 0 0 0	4 39 27 40 41 7 8	25.24 2.00 0.00 2.50 2.00 2.00 1.50	\$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ \$ 636.64 \$ \$ 1,444.07 \$	29,886.96 2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10 1,352.60	\$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each each	0 0 0 0 0 0 0	4 39 27 40 41 7 8	25.24 2.00 0.00 2.50 2.00 2.00 1.50	\$ 1,183.92 \$ 1,258.65 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	29,886.96 2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10 1,352.60	\$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - -			



<u> '</u>	NALCOR 350 kV HVdc Line Construction From	nt 2 (Long Range Mountair	<mark>1</mark> s)				Crew Cost						Total Unit Cost	
ıt	D			Units		Hours per			0	1.1		N 4 - 4 i - 1 -	Manhours and	T-4-1 M-4:
Ŀ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
,	S1-D4 Assembly and Erection of Suspension Tower	er Tyne "A1 + 4 5" as ner dwg	Total struc	ture count	0	EA			\$ -	\$	49,113.39 \$	-	\$ 49,113.39	\$
	S1-D4 Assembly and Erection of Suspension Tower Ty								Ψ	Ψ	43,110.03 ψ		Ψ 43,110.03	¥
	, ,	5268 Total Tower Height(ft) =	138	Section Weight (lb) =	15192									
!	Site Preparation	Site Preparation	each	1 0	2	2.00	\$ 675.12	\$ 1,350.24	\$ -	0 \$	-			
_	Haul	Hauling	each	0	1	8.00	\$ 441.04	· · · · · · · · · · · · · · · · · · ·		0 \$				
!	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84	\$ 563.68	\$ -	0 \$				
7	Assemble Tower	Lattice Assembly	each	0	4	26.04	\$ 1,183.92	\$ 30,831.00	\$ -	0 \$				
Ī	Install Guy Strand	Guy Install	each	0	39	2.00	\$ 1,258.65	\$ 2,517.30	\$ -	0 \$	-			
7	Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72	\$ -	\$ -	0 \$	-			
1	Crane Set	Y- Tower Erection	each	0	40	2.50	\$ 1,482.09	\$ 3,705.24	\$ -	0 \$	-			
1	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00	\$ -	0 \$	-			
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	\$ 1,273.27	\$ -	0 \$	-			
Į	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444.07			0 \$				
[Tie -in	Tie -in	each	0	12	2.00	\$ 676.30	\$ 1,352. <mark>60</mark>	\$ -	0 \$				
	Total Cos	st = \$ 2.917	per pound				-	\$ -		0 \$				
								\$ 49,113.39	\$ -	\$	-			
	S1-D5 Assembly and Erection of Suspension Tower			ture count:	67	EA			\$ 3,302,623.59	\$	49,292.89 \$	-	\$ 49,292.89	\$
,	S1-D5 Assembly and Erection of Suspension Tower Ty													
г		Total Tower Height(ft) =		Section Weight (lb) =	15272									
_	Site Preparation	Site Preparation	each	67			\$ 675.12							
	Haul	Hauling	each	67	1	8.04	\$ 441.04							
_	Setup Blocks	Blocking Crew	each	67	3	2.00	\$ 281.84							
_	Assemble Tower	Lattice Assembly	each	67	4	26.18		\$ 30,992.06						
	Install Guy Strand	Guy Install	each	67	39	2.00	, , , , ,	\$ 2,517.30						
_	Helicopter Set	HL Helicopter	each	67	27	0.00		\$ -		67 \$				
_	Crane Set	Y- Tower Erection	each	67	40	2.50		\$ 3,705.24						
_	Plumb Tower	Tower Plumb	each	67	41 7	2.00	\$ 913.00 \$ 636.64							
	haul Insulators and Travellers		each				1 % h 3h h 4 l	5 1 //3 //	\$ 85,309.4					
_		Haul Travellers&Glass		67	<u> </u>				Φ 44E 400 7	0 1 67 6				
ŀ	Hang Travellers	Hang Travellers	each	67	8	1.50	\$ 1,444.07	\$ 2,166.10						
ŀ	Tie -in	Hang Travellers Tie -in	each each	67 67	8		\$ 1,444.07 \$ 6 76.30	\$ 2,166.10 \$ 1,352.60	\$ 90,624.44	4 67 \$	1,352.60			
ŀ		Hang Travellers Tie -in	each	67 67	8	1.50	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ -	\$ 90,624.44 \$ -	4 67 \$ 67 \$	1,352.60 -			
ŀ	Tie -in	Hang Travellers Tie -in	each each	67 67	8	1.50	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60	\$ 90,624.44 \$ -	4 67 \$ 67 \$	1,352.60			
ŀ	Tie -in Total Cos	Hang Travellers Tre-In St = \$ 2.914	each each per pound	67 67	8 12	1.50 2.00	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89	\$ 90,624.44 \$ - \$ 3,302,623.59	67 \$ 67 \$ 9 \$	1,352.60 - 49,292.89		\$ 50.010.99	l ¢
<u> </u>	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower	Hang Travellers Trio-In St = \$ 2.914 er Type "A1 + 7.5" as per dwg.	each each per pound	67 67 sture count:	8	1.50	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89	\$ 90,624.44 \$ -	67 \$ 67 \$ 9 \$	1,352.60 - 49,292.89		\$ 50,010.88	 \$
<u> </u>	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty	Hang Travellers Trie-in St = \$ 2.914 Par Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055	each each per pound Total struc 573-4622-43	67 67 sture count: DD-0042	8 12 26	1.50 2.00	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89	\$ 90,624.44 \$ - \$ 3,302,623.59	67 \$ 67 \$ 9 \$	1,352.60 - 49,292.89	-	\$ 50,010.88	\$
<u> </u>	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167	Hang Travellers Tie-in St = \$ 2.914 Pr Type "A1 + 7.5" as per dwg. ype "A1 + 7.5" as per dwg. 5056 Total Tower Height(ft) =	each each per pound Total struc 573-4622-43 148	67 67 sture count: DD-0042 Section Weight (lb) =	8 12 26 15589	1.50 2.00	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89	\$ 90,624.44 \$ - \$ 3,302,623.55 \$ 1,300,282.94	4 67 \$ 67 \$ 9 \$ \$	1,352.60 - 49,292.89 50,010.88 \$		\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation	Hang Travellers Tie-in St = \$ 2.914 er Type "A1 + 7.5" as per dwg. ype "A1 + 7.5" as per dwg. 5056 Total Tower Height(ft) = Site Preparation	each each per pound Total struct 573-4622-43 148 each	67 67 sture count: DD-0042 Section Weight (ib) = 26	8 12 26 15589 2	1.50 2.00	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24	\$ 90,624.44 \$ - \$ 3,302,623.59 \$ 1,300,282.94 \$ 35,106.33	4 67 \$ 67 \$ \$ 9 \$ \$ \$ 7 \$ 26 \$ \$	1,352.60 - 49,292.89 50,010.88 \$	-	\$ 50,010.88	\$
# 3 3	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul	Hang Travellers Tie -in St = \$ 2.914 Per Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling	each each per pound Total struc 573-4622-43 148 each each	67 67 67 sture count: DD-0042 Section Weight (ib) = 26 26	26 15589 2	1.50 2.00 EA	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10	\$ 90,624.44 \$ - \$ 3,302,623.58 \$ 1,300,282.9 \$ 35,106.33 \$ 94,122.68	4 67 \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10	-	\$ 50,010.88	\$
+ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul Setup Blocks	Hang Travellers Tie -in St = \$ 2.914 Per Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each per pound Total struc 573-4622-43 148 each each each	67 67 87 80 80 80 80 80 80 80 80 80 80 80 80 80	8 12 26 15589 2	1.50 2.00 EA	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10 \$ 563.68	\$ 90,624.44 \$ - \$ 3,302,623.55 \$ 1,300,282.9 \$ 35,106.3 \$ 94,122.66 \$ 14,655.86	4 67 \$ 67 \$ \$ 9 \$ \$ \$ \$ \$ 7 \$ 26 \$ \$ 3 \$ 26 \$ \$ \$ 0 \$ 26 \$ \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68	-	\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul Setup Blocks Assemble Tower	Hang Travellers Tie -in St = \$ 2.914 Er Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each per pound Total struc 573-4622-43 148 each each	67 67 87 80 80 80 80 80 80 80 80 80 80 80 80 80	26 15589 2 1 3 4	2.00 8.21 2.00 26.72	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10 \$ 563.68 \$ 31,636.33	\$ 90,624.44 \$ - \$ 3,302,623.55 \$ 1,300,282.9 \$ 35,106.3 \$ 94,122.66 \$ 14,655.86 \$ 822,544.66	4 67 \$ 67 \$ 67 \$ 7 26 \$ 3 26 \$ 0 26 \$ 6 26 \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33	-	\$ 50,010.88	\$
\$ 3 <u>1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Hang Travellers Tie -in St = \$ 2.914 Er Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each per pound Total struc 573-4622-43 148 each each each each each	67 67 67 sture count: DD-0042 Section Weight (ib) = 26 26 26 26 26	26 15589 2 1	2.00 EA 2.00 8.21 2.00 26.72 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30	\$ 90,624.44 \$ - \$ 3,302,623.55 \$ 1,300,282.9 \$ 35,106.3 \$ 94,122.66 \$ 14,655.86 \$ 822,544.66	4 67 \$ 67 \$ 67 \$ 8 \$ 7 26 \$ 8 26 \$ 0 26 \$ 6 26 \$ 9 26 \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30		\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Hang Travellers Tie -in St = \$ 2.914 ET Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each per pound Total struc 573-4622-43 148 each each each each each each	67 67 67 eture count: DD-0042 Section Weight (ib) = 26 26 26 26 26 26	26 15589 2 1 3 4 39 27	2.00 8.21 2.00 26.72 2.00 0.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ -	\$ 90,624.44 \$ - \$ 3,302,623.59 \$ 1,300,282.9 \$ 35,106.37 \$ 94,122.66 \$ 14,655.86 \$ 822,544.66 \$ 65,449.76	4 67 \$ 67 \$ 67 \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ 67 \$ \$ \$ \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30	-	\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Hang Travellers Tie -in St = \$ 2.914 Er Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each per pound Total struc 573-4622-43 148 each each each each each	67 67 67 sture count: DD-0042 Section Weight (ib) = 26 26 26 26 26	26 15589 2 1 3 4 39 27 40	2.00 EA 2.00 8.21 2.00 26.72 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24	\$ 90,624.44 \$ 3,302,623.59 \$ 1,300,282.94 \$ 35,106.37 \$ 94,122.66 \$ 14,655.80 \$ 822,544.60 \$ 65,449.79 \$ 96,336.12	4 67 \$ 67 \$ 67 \$ 8	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30 - 3,705.24	-	\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (lb) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Hang Travellers Tie -in St = \$ 2.914 Per Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5058 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each per pound Total struc 573-4622-43 148 each each each each each each each	67 67 67 eture count: DD-0042 Section Weight (ib) = 26 26 26 26 26 26 26 26	26 15589 2 1 3 4 39 27 40	2.00 8.21 2.00 26.72 2.00 0.00 2.50	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00	\$ 90,624.44 \$ 3,302,623.59 \$ 1,300,282.94 \$ 35,106.37 \$ 94,122.66 \$ 14,655.86 \$ 822,544.66 \$ 65,449.77 \$ \$ 96,336.12 \$ 47,476.08	4 67 \$ 67 \$ 67 \$ 8	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30 - 3,705.24 1,826.00	-	\$ 50,010.88	\$
\$ 5 S H S A H G F F	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (Ib) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hang Travellers Tie -in St = \$ 2.914 Par Type "A1 + 7.5" as per dwg. Stype "A1 + 7.5" as per dwg. 5058 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each per pound Total struc 573-4622-43 148 each each each each each each each each	67 67 67 8ture count: DD-0042 Section Weight (lb) = 26 26 26 26 26 26 26	26 15589 2 1 3 4 39 27 40 41	2.00 8.21 2.00 26.72 2.00 0.00 2.50 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 1,350.24 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ 90,624.44 \$ 3,302,623.55 \$ 1,300,282.94 \$ 35,106.37 \$ 94,122.68 \$ 14,655.86 \$ 822,544.67 \$ 65,449.77 \$ 96,336.12 \$ 47,476.08 \$ 33,105.14	4 67 \$ 67 \$ 67 \$ 8	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30 - 3,705.24 1,826.00 1,273.27	-	\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (Ib) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hang Travellers Tie -in St = \$ 2.914 Par Type "A1 + 7.5" as per dwg. Type "A1 + 7.5" as per dwg. 5058 Total Tower Height(fft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass	each each per pound Total struc 573-4622-43 148 each each each each each each each each	67 67 67 8ture count: DD-0042 Section Weight (lb) = 26 26 26 26 26 26 26 26 26	26 15589 2 1 3 4 39 27 40 41 7	2.00 8.21 2.00 26.72 2.00 0.00 2.50 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 90,624.44 \$ 1,300,282.94 \$ 35,106.37 \$ 94,122.68 \$ 14,655.80 \$ 822,544.60 \$ 65,449.70 \$ 96,336.12 \$ 47,476.08 \$ 33,105.14 \$ 56,318.6	4 67 \$ 67 \$ 67 \$ 7 26 \$ 8 26 \$ 8 26 \$ 9 26 \$ 9 26 \$ 26 \$ 26 \$ 26 \$ 26 \$ 26 \$ 26 \$ 26 \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10	-	\$ 50,010.88	\$
	Tie -in Total Cos S1-D6 Assembly and Erection of Suspension Tower S1-D6 Assembly and Erection of Suspension Tower Ty Total Tower Weight With Guys and Ext. (Ib) = 167 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hang Travellers Tie -in St = \$ 2.914 Par Type "A1 + 7.5" as per dwg. Sype "A1 + 7.5" as per dwg. 5056 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Hang Travellers	each each per pound Total struc 573-4622-43 148 each each each each each each each each	67 67 67 Seture count: DD-0042 Section Weight (lb) = 26 26 26 26 26 26 26 26 26 26	26 15589 2 1 3 4 39 27 40 41 7 8	2.00 8.21 2.00 2.00 0.00 2.50 2.00 2.00 1.50	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 2,166.10 \$ 1,352.60 \$ - \$ 49,292.89 \$ 3,620.10 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 90,624.44 \$ 3,302,623.55 \$ 1,300,282.94 \$ 35,106.37 \$ 94,122.68 \$ 14,655.80 \$ 822,544.60 \$ 65,449.70 \$ 96,336.12 \$ 47,476.08 \$ 33,105.14 \$ 56,318.60 \$ 35,167.66	4 67 \$ 67 \$ 67 \$ 7 26 \$ 8 26 \$ 8 26 \$ 9 26 \$ 9 26 \$ 9 26 \$ 9 26 \$ 9 26 \$ 9 26 \$ 9 26 \$ 1 26 \$	1,352.60 - 49,292.89 50,010.88 \$ 1,350.24 3,620.10 563.68 31,636.33 2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10 1,352.60		\$ 50,010.88	\$



	NALCOR 350 kV HVdc Line Construction	Front 2 (Long Range Mountain	<mark>n</mark> s)				Crew (Cost						Total Unit Cost	
ent				Units		Hours per								Manhours and	
[Description			Total	Crew No.	unit	Hourly Ra	te	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D7 Assembly and Erection of Suspension To				27	EA				\$ 1,365,506.29		\$ 50,574.31 \$	-	\$ 50,574.31	\$
,	S1-D7 Assembly and Erection of Suspension Tow	,, , , ,			15000										
г	Total Tower Weight With Guys and Ext. (lb) =	17066 Total Tower Height(ft) =		Section Weight (lb) =	15838	0.00		075.40		A 00.450.04	!	4 050 04			
_	Site Preparation	Site Preparation	each	27	2			675.12 \$			27				
	Haul Setup Blocks	Hauling	each	27 27	1	8.34		441.04 \$ 281.84 \$			27				
	Assemble Tower	Blocking Crew	each		<u>3</u>	2.00									
	Install Guy Strand	Lattice Assembly	each	27 27	39	27.15 2.00		,183.92 \$			27				
_	Helicopter Set	Guy Install	each each	27	27	0.00		,258.65 \$,899.72 \$			27				
	Crane Set	HL Helicopter	each	27	40	2.50		,482.09 \$		<u> </u>	27				
	Plumb Tower	Y- Tower Erection	each	27	41	2.00		913.00 \$			27				
_	haul Insulators and Travellers	Tower Plumb	each	27	7	2.00		636.64 \$			27				
	Hang Travellers	Haul Travellers&Glass	each	27	8	1.50		,444.07 \$			27				
_	Tie -in	Hang Travellers	each	27	12	2.00		676.30 \$			27				
ŀ	110 -111	Tie -in	each	27	12	2.00	\$	- \$		\$ 30,520.29	27				
ŀ			each	27			\$	- \$		\$ -	27				
L	Tota	I Cost = \$ 2.89°	l per pound	<u> </u>			Ψ	<u>-</u> φ	50,574.31	· ·		\$ 50,574.31			
	Total	τουστ – ψ 2.03	i per pourid	ļ				Ψ	00,074.01	1,505,500.23	_	Ψ 30,374.31			
,	S1-D8 Assembly and Erection of Suspension To	ower Type "A1 + 10 5" as per	Total struc	ture count:	28	EA				\$ 1,446,375.90		\$ 51,656.28 \$	<u>-</u>	\$ 51,656.28	l ¢
	S1-D8 Assembly and Erection of Suspension Tow				20					1,440,575.50		Ψ 31,030.20 Ψ		Ψ 31,030.20	Ψ
`	Total Tower Weight With Guys and Ext. (lb) =	17594 Total Tower Height(ft) =		Section Weight (lb) =	16316										
	Site Preparation	Site Preparation	each	28	2	2.00	\$	675.12 \$	1,350.24	\$ 37,806.86	28	\$ 1,350.24			
-	Haul	Hauling	each	28	1	8.59		441.04 \$			28				
_	Setup Blocks	Blocking Crew	each	28	3	2.00		281.84 \$			28				
	Assemble Tower	Lattice Assembly	each	28	4	27.97		183.92 \$			28				
	Install Guy Strand	Guy Install	each	28	39	2.00		,258.65 \$			28				
	Helicopter Set	HL Helicopter	each	28	27	0.00		,899.72 \$			28				
_	Crane Set	Y- Tower Erection	each	28	40	2.50		482.09 \$			28				
_			_		41	2.00		913.00 \$			28				
_	'Plumb Lower	Tower Plumb	i each	70											
	Plumb Tower haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each each	28	7										
_	haul Insulators and Travellers	Haul Travellers&Glass	each	28	7	2.00	\$	636.64 \$	1,273.27	\$ 35,651.69	28	\$ 1,273.27			
Ī	haul Insulators and Travellers Hang Travellers	Haul Travellers&Glass Hang Travellers		28 28	7 8	2.00 1.50	\$ 1	636.64 \$	1,273.27 2,166.10	\$ 35,651.69 \$ 60,650.81	28 28	\$ 1,273.27 \$ 2,166.10			
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each each	28	7	2.00	\$ 1	636.64 \$,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,352.60	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90	28 28 28	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60			
Ī	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers & Glass Hang Travellers Tie -in	each each each each	28 28 28 28	7 8	2.00 1.50	\$ 1	636.64 \$	1,273.27 2,166.10 1,352.60	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ -	28 28 28 28	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ -			
Ī	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers & Glass Hang Travellers Tie -in	each each each	28 28 28 28	7 8	2.00 1.50	\$ 1	636.64 \$,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,352.60	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ -	28 28 28 28	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ -			
-	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers & Glass Hang Travellers Tie -in I Cost = \$ 2.872	each each each each per pound	28 28 28 28 28	7 8	2.00 1.50	\$ 1	636.64 \$,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,352.60 5 51,656.28	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ -	28 28 28 28 28	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ -		\$ 52,169.85	\$
<u>-</u>	haul Insulators and Travellers Hang Travellers Tie -in Total	Haul Travellers & Glass Hang Travellers Tie -in Cost = \$ 2.872 Cower Type "A1 + 12" as per dwg.	each each each each each Per pound Total struc	28 28 28 28 28 ture count:	7 8 12	2.00 1.50 2.00	\$ 1	636.64 \$,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,352.60 5 51,656.28	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90	28 28 28 28 28	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28		\$ 52,169.85	\$
<u>-</u>	haul Insulators and Travellers Hang Travellers Tie -inTotal S1-D9 Assembly and Erection of Suspension To	Haul Travellers & Glass Hang Travellers Tie -in Cost = \$ 2.872 Cower Type "A1 + 12" as per dwg.	each each each each 2 per pound Total struc: 573-4622-43D	28 28 28 28 28 ture count:	7 8 12	2.00 1.50 2.00	\$ 1	636.64 \$,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,352.60 5 51,656.28	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94	28 28 28 28 28	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$		\$ 52,169.85	\$
<u> </u>	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (lb) = Site Preparation	Haul Travellers & Glass Hang Travellers Tie -in I Cost = \$ 2.872 Cower Type "A1 + 12" as per dwg. 505 Ter Type "A1 + 12" as per dwg. 505	each each each each 2 per pound Total struc 573-4622-43D 163 each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	7 8 12	2.00 1.50 2.00	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	636.64 \$.444.07 \$.676.30 \$ \$ \$	1,273.27 2,166.10 1,352.60 5 51,656.28	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08	28 28 28 28 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24		\$ 52,169.85	\$
 	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	Haul Travellers & Glass Hang Travellers Tie -in I Cost = \$ 2.872 Tower Type "A1 + 12" as per dwg. er Type "A1 + 12" as per dwg. 505 17872 Total Tower Height(ft) =	each each each each 2 per pound Total struc: 573-4622-43D 163	28 28 28 28 28 28 28 28 28 28 28 28 28 2	7 8 12 33 16544 2	2.00 1.50 2.00 EA	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	636.64 \$.444.07 \$.676.30 \$.	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86	28 28 28 28 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ 1,350.24 \$ 3,841.78		\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	Haul Travellers & Glass Hang Travellers Tie -in I Cost = \$ 2.872 Fower Type "A1 + 12" as per dwg. 2005 Total Tower Height(ft) = Site Preparation	each each each each each 2 per pound Total struct 573-4622-43D 163 each each each	28 28 28 28 28 28 28 28 28 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	7 8 12 33 16544 2	2.00 1.50 2.00 EA	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	636.64 \$.444.07 \$.676.30 \$ \$ \$	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78 5 563.68	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59	28 28 28 28 28 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ 1,350.24 \$ 3,841.78 \$ 563.68		\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower	Haul Travellers & Glass Hang Travellers Tie -in I Cost = \$ 2.872 Fower Type "A1 + 12" as per dwg. 2005 Total Tower Height(ft) = Site Preparation Hauling	each each each each 2 per pound Total struc: 573-4622-43D 163 each each	28 28 28 28 28 28 28 28 28 28 28 28 29 30 30 31 33 33 33	7 8 12 33 16544 2 1 3 4	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	636.64 \$ 444.07 \$ 676.30 \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78 563.68 33,573.62	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35	28 28 28 28 28 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62		\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Haul Travellers & Glass Hang Travellers Tie -in I Cost = \$ 2.872 cower Type "A1 + 12" as per dwg. 505 17872 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each 2 per pound Total struct 573-4622-43D 163 each each each	28 28 28 28 28 28 ture count: D-0042 Section Weight (lb) = 33 33 33 33	7 8 12 33 16544 2 1 3 4 39	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00	\$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 1 \$ 1	636.64 \$,444.07 \$ 676.30 \$ \$ 675.12 \$ 441.04 \$ 281.84 \$,183.92 \$,258.65 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 51,350.24 3,841.78 563.68 33,573.62 2,517.30	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35	28 28 28 28 28 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30		\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower	Haul Travellers & Glass Hang Travellers Tie -in Cost = \$ 2.872 Cower Type "A1 + 12" as per dwg. ter	each each each each 2 per pound Total struc 573-4622-43D 163 each each each each	28 28 28 28 28 28 28 ture count: D-0042 Section Weight (lb) = 33 33 33 33 33 33	7 8 12 33 16544 2 1 3 4 39 27	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1 \$ 21	636.64 \$,444.07 \$ 676.30 \$ \$ 675.12 \$ 441.04 \$ 281.84 \$,183.92 \$,258.65 \$,899.72 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78 563.68 33,573.62 2,517.30	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ -	28 28 28 28 28 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ -		\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Haul Travellers & Glass Hang Travellers Tie -in Cost = \$ 2.872 Cower Type "A1 + 12" as per dwg. For	each each each each 2 per pound Total struc 573-4622-43D 163 each each each each each each each each	28 28 28 28 28 28 ture count: D-0042 Section Weight (lb) = 33 33 33 33 33 33 33	7 8 12 33 16544 2 1 3 4 39 27 40	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00 2.50	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ 1 \$ 21 \$ 1	636.64 \$,444.07 \$ 676.30 \$ \$ 675.12 \$ 441.04 \$ 281.84 \$,183.92 \$,258.65 \$,899.72 \$,482.09 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 51,656.28 51,350.24 3,841.78 563.68 33,573.62 2,517.30 5 3,705.24	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ - \$ 122,272.77	28 28 28 28 28 33 33 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24	-	\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Haul Travellers & Glass Hang Travellers Tie -in Cost = \$ 2.872 Cower Type "A1 + 12" as per dwg. For	each each each each 2 per pound Total struc 573-4622-43D 163 each each each each each each each each	28 28 28 28 28 28 ture count: D-0042 Section Weight (lb) = 33 33 33 33 33 33 33 33	7 8 12 33 16544 2 1 3 4 39 27 40 41	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00 2.50 2.00	\$ 1 \$ 1 \$ 1 \$ 21 \$ 1 \$	636.64 \$,444.07 \$ 676.30 \$ \$ 675.12 \$ 441.04 \$ 281.84 \$,183.92 \$,258.65 \$,899.72 \$,482.09 \$ 913.00 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 51,656.28 51,350.24 3,841.78 563.68 33,573.62 2,517.30 5 3,705.24 1,826.00	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ - \$ 122,272.77 \$ 60,258.10	28 28 28 28 28 33 33 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00	-	\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Haul Travellers & Glass	each each each each each 2 per pound Total struc 573-4622-43D 163 each each each each each each each each	28 28 28 28 28 28 28 ture count: D-0042 Section Weight (lb) = 33 33 33 33 33 33 33 33 33	7 8 12 33 16544 2 1 3 4 39 27 40 41 7	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00 2.50 2.00 2.00	\$ 1 \$ 1 \$ 21 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	636.64 \$,444.07 \$ 676.30 \$ 675.12 \$ 441.04 \$,183.92 \$,258.65 \$,899.72 \$,482.09 \$ 913.00 \$ 636.64 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 51,656.28 51,350.24 3,841.78 5563.68 33,573.62 2,517.30 - 3,705.24 1,826.00 1,273.27	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ - \$ 122,272.77 \$ 60,258.10 \$ 42,018.07	28 28 28 28 28 33 33 33 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	-	\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Haul Travellers & Glass	each each each each each 2 per pound Total struc 573-4622-43D 163 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	7 8 12 33 16544 2 1 3 4 39 27 40 41 7 8	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00 2.50 2.00 2.00 1.50	\$ 1 \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ \$ 1 \$	636.64 \$ 444.07 \$ 676.30 \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$ 258.65 \$ 899.72 \$ 482.09 \$ 913.00 \$ 636.64 \$ 444.07 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78 563.68 33,573.62 2,517.30 3,705.24 1,826.00 1,273.27 2,166.10	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ - \$ 122,272.77 \$ 60,258.10 \$ 42,018.07 \$ 71,481.31	28 28 28 28 28 33 33 33 33 33 33 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ 51,656.28 \$ 52,169.85 \$ \$ 1,350.24 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	-	\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in Total S1-D9 Assembly and Erection of Suspension Total S1-D9 Assembly and Erection of Suspension Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Haul Travellers & Glass	each each each each each 2 per pound Total struc 573-4622-43D 163 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	7 8 12 33 16544 2 1 3 4 39 27 40 41 7	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00 2.50 2.00 2.00	\$ 1 \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ \$ 1 \$	636.64 \$ 444.07 \$ 676.30 \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$ 258.65 \$ 899.72 \$ 482.09 \$ 913.00 \$ 636.64 \$ 444.07 \$ 676.30 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78 563.68 33,573.62 2,517.30 3,705.24 1,826.00 1,273.27 2,166.10 1,352.60	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ - \$ 122,272.77 \$ 60,258.10 \$ 42,018.07 \$ 71,481.31 \$ 44,635.92	28 28 28 28 28 33 33 33 33 33 33 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	-	\$ 52,169.85	\$
	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers & Glass	each each each each each 2 per pound Total struc 573-4622-43D 163 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	7 8 12 33 16544 2 1 3 4 39 27 40 41 7 8	2.00 1.50 2.00 EA 2.00 8.71 2.00 28.36 2.00 0.00 2.50 2.00 2.00 1.50	\$ 1 \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ 1 \$ \$ \$ \$ 1 \$	636.64 \$ 444.07 \$ 676.30 \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$ 258.65 \$ 899.72 \$ 482.09 \$ 913.00 \$ 636.64 \$ 444.07 \$	1,273.27 2,166.10 1,352.60 5 51,656.28 1,350.24 3,841.78 563.68 33,573.62 2,517.30 3,705.24 1,826.00 1,273.27 2,166.10 1,352.60	\$ 35,651.69 \$ 60,650.81 \$ 37,872.90 \$ - \$ 1,446,375.90 \$ 1,721,604.94 \$ 44,558.08 \$ 126,778.86 \$ 18,601.59 \$ 1,107,929.35 \$ 83,070.88 \$ - \$ 122,272.77 \$ 60,258.10 \$ 42,018.07 \$ 71,481.31 \$ 44,635.92 \$ -	28 28 28 28 28 33 33 33 33 33 33 33 33 33 33 33 33 33	\$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 51,656.28 \$ 52,169.85 \$ 3,841.78 \$ 563.68 \$ 33,573.62 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	•	\$ 52,169.85	\$



	NALCOR 350 kV HVdc Line Construction Front 2 (Lo	ng Range Mountai	<mark>n</mark> s)				Crew Cost	I					Total Unit Cost	
Payment	(Units		Hours per							Manhours and	
tem	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	<u> </u>		•			•	<u> </u>						•	•
/::D10	S1-D10 Assembly and Erection of Suspension Tower Type	"A1 + 13.5" as per	Total struc	ture count:	25	EA			\$ 1,322,195.98	\$	52,887.84	\$ -	\$ 52,887.84	\$
	S1-D10 Assembly and Erection of Suspension Tower Type "A1	+ 13.5" as per dwg. 5	05573-4622-4	13DD-0042										
	Total Tower Weight With Guys and Ext. (lb) = 18240	Total Tower Height(ft) =	168	Section Weight (lb) =	16861									
	Site Preparation	Site Preparation	each	25		2.00	\$ 675.12 \$	1,350.24	\$ 33,756.12	25 \$	1,350.24			
	Haul	Hauling	each	25	1	8.88	\$ 441.04 \$	3,915.51	\$ 97,887.67	25 \$	3,915.51			
	Setup Blocks	Blocking Crew	each	25		2.00	\$ 281.84 \$	563.68	7	25 \$	563.68			
	Assemble Tower	Lattice Assembly	each	25		28.90	\$ 1,183.92 \$	34,217.89	\$ 855,447.16	25 \$	34,217.89			
	Install Guy Strand	Guy Install	each	25		2.00	\$ 1,258.65 \$	2,517.30	\$ 62,932.49		2,517.30			
	Helicopter Set	HL Helicopter	each	25		0.00	\$ 21,899.72 \$		\$ -	25 \$				
	Crane Set	Y- Tower Erection	each	25		2.50	\$ 1,482.09 \$	0,1 00.2 1	\$ 92,630.88	25 \$	3,705.24			
	Plumb Tower	Tower Plumb	each	25		2.00	\$ 913.00 \$	1,826.00		25 \$	1,826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	25		2.00	\$ 636.64 \$	1,273.27			1,273.27			
	Hang Travellers	Hang Travellers	each	25		1.50	\$ 1,444.07 \$	2,166.10		25 \$	2,166.10			
	Tie -in	Tie -in	each each	25		2.00	\$ 676.30 \$	1,352.60			1,352.60			
	Tatal Cont	¢ 0.050		25			\$ - \$		\$ 1 222 105 00	25 \$	E2 007 04			
	Total Cost =	\$ 2.852	per pound				Ф	52,887.84	\$ 1,322,195.98	Ф	52,887.84			
/::D11	S1-D11 Assembly and Erection of Suspension Tower Type	"A1 , 15" aa aas duu	Total struc	turo count:	26	EA			\$ 1,393,751.63	¢	53,605.83	¢	\$ 53,605.83	l e
ווטו	S1-D11 Assembly and Erection of Suspension Tower Type S1-D11 Assembly and Erection of Suspension Tower Type "A1				20	LA			1,393,731.03	Ψ	55,005.65	Φ -	φ 55,005.65	Φ
	Total Tower Weight With Guys and Ext. (lb) = 18608	Total Tower Height(ft) =		Section Weight (lb) =	17179									
	Site Preparation	Site Preparation	each	26		2.00	\$ 675.12 \$	1,350.24	\$ 35,106.37	26 \$	1,350.24			
	Haul	Site Preparation Hauling	each	26		9.05	\$ 441.04 \$				3,989.23			
	Setup Blocks		each	26	3	2.00	\$ 281.84 \$				563.68			
	Assemble Tower	Blocking Crew Lattice Assembly	each	26		29.45	-	34,862.16			34,862.16			
	Install Guy Strand	Guy Install	each	26		2.00	\$ 1,258.65 \$			26 \$	2,517.30			
	Helicopter Set	HI Helicopter	each	26	27	0.00	\$ 21.899.72 \$	2,017:00	\$ -	26 \$	2,017.00			
	Crane Set	Y- Tower Erection	each	26	40	2.50	\$ 1,482.09 \$	3,705.24	\$ 96,336.12		3,705.24			
	Plumb Tower	Tower Plumb	each	26		2.00	\$ 913.00 \$,	<u> </u>		1.826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	26	7	2.00	\$ 636.64 \$, , , , , , ,		1,273.27			
	Hang Travellers	Hang Travellers	each	26	8	1.50	\$ 1,444.07 \$			26 \$	2,166.10			
	Tie -in	Tie -in	each	26		2.00	\$ 676.30 \$		\$ 35,167.69		1,352.60			
		110 111	each	26		2.55	\$ - \$	- 1,002.00	\$ -	26 \$	-			
	Total Cost =	\$ 2.842	per pound				\$	53,605.83	\$ 1,393,751.63	\$	53,605.83			
		•		1					, , , , , , , , , , , , , , , , , , , ,		,			
/::D12	S1-D12 Assembly and Erection of Suspension Tower Type	"A1 + 16.5" as per	Total struc	ture count:	28	EA			\$ 1,516,739.19	\$	54,169.26	\$ -	\$ 54,169.26	\$
	S1-D12 Assembly and Erection of Suspension Tower Type "A1	+ 16.5" as per dwg. 5	05573-4622-4	13DD-0042										
	Total Tower Weight With Guys and Ext. (lb) = 18907	Total Tower Height(ft) =	177	Section Weight (lb) =	17428									
	Site Preparation	Site Preparation	each	28	2	2.00	\$ 675.12 \$	1,350.24			1,350.24			
	Haul	Hauling	each	28		9.18	\$ 441.04 \$	4,047.08	1 - 1		4,047.08			
	Setup Blocks	Blocking Crew	each	28		2.00	\$ 281.84 \$	563.68	, , , , ,	28 \$	563.68			
	Assemble Tower	Lattice Assembly	each	28	4	29.87	\$ 1,183.92 \$	35,367.73			35,367.73			
	Install Guy Strand	Guy Install	each	28		2.00	\$ 1,258.65 \$	=,0 0 0	\$ 70,484.39		2,517.30			
	Helicopter Set	HL Helicopter	each	28	27	0.00	\$ 21,899.72 \$		\$ -	28 \$	<u> </u>			
	Crane Set	Y- Tower Erection	each	28	40	2.50	\$ 1,482.09 \$	3,705.24			3,705.24			
	Plumb Tower	Tower Plumb	each	28		2.00	\$ 913.00 \$	1,020.00	\$ 51,128.09		1,826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	28		2.00	\$ 636.64 \$	1,273.27			1,273.27			
			each	28	8	1.50	\$ 1,444.07 \$	2,166.10	\$ 60,650.81	28 \$	2,166.10			
	Hang Travellers	Hang Travellers												
	Hang Travellers Tie -in	Hang Travellers Tie -in	each	28		2.00	\$ 676.30 \$.,	\$ 37,872.90		1,352.60			
	<u> </u>	Tie -in		28 28		2.00	\$ 676.30 \$ \$ -	/	\$ -	28 \$	1,352.60 - 54,169.26			



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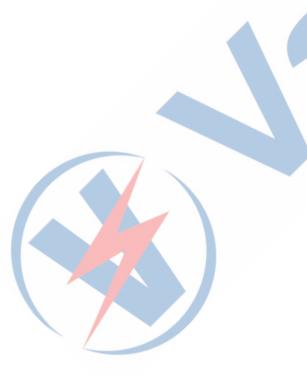


Payment	
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NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	s)			Crew Cost						Total Unit Cost		
	Units		Hours per							Manhours and		
Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
												-

V::D13	S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. Total structure count:	42	EA	\$ 2,298,982.05	\$ 54,737.67 \$	-	\$ 54,737.67	\$
	0. D. 0. 1							

S1-D13 Assembly and Erection of Suspension	Tower Type "A	n + 18° as per dv	vg. 505573-462	22-43DL	D-0042							
Total Tower Weight With Guys and Ext. (lb) =	19209	Total Tower Height	(ft) = 18	32 Se	ection Weight (lb) =	17679						
Site Preparation		Site Preparation	ea	ch	42	2	2.00	\$ 675.12	\$ 1,350.24	\$ 56,710.29	42 \$	1,350.24
Haul		Hauling	ea	ch	42	1	9.31	\$ 441.04	\$ 4,105.45	\$ 172,428.71	42 \$	4,105.45
Setup Blocks		Blocking Crew	ea	ch	42	3	2.00	\$ 281.84	\$ 563.68	\$ 23,674.75	42 \$	563.68
Assemble Tower		Lattice Assembly	ea	ch	42	4	30.30	\$ 1,183.92	\$ 35,877.78	\$ 1,506,866.60	42 \$	35,877.78
Install Guy Strand		Guy Install	ea	ch	42	39	2.00	\$ 1,258.65	\$ 2,517.30	\$ 105,726.58	42 \$	2,517.30
Helicopter Set		HL Helicopter	ea	ch	42	27	0.00	\$ 21,899.72	\$ -	\$ -	42 \$	-
Crane Set		Y- Tower Erection	ea	ch	42	40	2.50	\$ 1,482.09	\$ 3,705.24	\$ 155,619.88	42 \$	3,705.24
Plumb Tower		Tower Plumb	ea	ch	42	41	2.00	\$ 913.00	\$ 1,826.00	\$ 76,692.13	42 \$	1,826.00
haul Insulators and Travellers		Haul Travellers&Glass	ea	ch	42	7	2.00	\$ 636.64	\$ 1,273.27	\$ 53,477.54	42 \$	1,273.27
Hang Travellers		Hang Travellers	ea	ch	42	8	1.50	\$ 1,444.07	\$ 2,166.10	\$ 90,976.22	42 \$	2,166.10
Tie -in		Tie -in	ea	ch	42	12	2.00	\$ 67 6.30	\$ 1,352.60	\$ 56,809.35	42 \$	1,352.60
			ea	ch	42			\$ -	\$ 4	\$ -	42 \$	-
To	otal Cost =	\$	2.825 per p	ound				,	\$ 54,737.67	\$ 2,298,982.05	\$	54,737.67





1	NALCOR 350 kV HVdc Line Construction Fr	<mark>ont 2 (Long Range Mounta</mark>	<mark>in</mark> s)					Crew Cost						Total Unit Cost	
t [Units		Hours per								Manhours and	
[Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Assembly and Erection of Suspension To			Tower Setting	_		0 Helic	opter	100%	Crane					_
	S1-D14 Assembly and Erection of Suspension To				0	EA				\$	-	\$ 67,332.18 \$	-	\$ 67,332.18	\$
5	S1-D14 Assembly and Erection of Suspension Tower				00770										
T 6		2259 Total Tower Height(ft) =		Section Weight (lb) =	20779	2.00	•	C7E 40	t 1.250.04	<u></u>		I &			
_	Site Preparation Haul	Site Preparation	each each	0	<u>2</u> 1	2.00 14.94	\$	675.12 441.04				\$ - \$ -			
_	Setup Blocks	Hauling	each	0	3	2.00	φ	281.84				\$ - \$ -			
	Assemble Tower	Blocking Crew Lattice Assembly	each	0	4	35.62	\$	1,183.92				\$ -			
	nstall Guy Strand	Guy Install	each	0	39	3.00	\$		\$ 3,775.95			\$ -			
	Helicopter Set	HL Helicopter	each	0	27	0.00	\$	21,899.72		\$		\$ -			
	Crane Set	Y- Tower Erection	each	0	40	4.00	\$	1,482.09		,		\$ -			
_	Plumb Tower	Tower Plumb	each	0	41	2.00	\$	913.00				\$ -			
_	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$	636.64				\$ -			
	Hang Travellers	Hang Travellers	each	0	8	1.50	\$	1,444.07				\$ -			
	Tie -in	Tie -in	each	0	12	2.50	\$	676.30				\$ -			
F			each	0			\$		\$ -	\$		\$ -			
	Total C	ost = \$ 2.994	4 per pound						\$ 67,332.18	\$		\$ -			
			,	•											
	S1-D15 Assembly and Erection of Suspension To		Total struct		0	EA				\$	-	\$ 69,172.04 \$	-	\$ 69,172.04	\$
5	S1-D15 Assembly and Erection of Suspension Tower	Type "A2 + 1.5" as per dwg. 50	05573-4622-43	DD-0044		_									
_	Total Tower Weight With Guys and Ext. (lb) =	3188 Total Tower Height(ft) =	112	Section Weight (lb) =	21592										
9	Site Preparation	Site Preparation	each	0	2	2.00	\$	675. 12				-			
	Haul	Hauling	each	0	1	15.37	\$	441.04				\$ -			
	Setup Blocks	Blocking Crew	each	0	3	2.00	\$	281.84				\$ -			
	Assemble Tower	Lattice Assembly	each	0	4	37.01	\$	1,183.92				\$ -			
	nstall Guy Strand	Guy Install	each	0	39	3.00	\$		\$ 3,775.95			-			
	Helicopter Set	HL Helicopter	each	0	27	0.00	\$		\$ -			-			
_	Crane Set	Y- Tower Erection	each	0	40	4.00	\$	1,482.09				-			
_	Plumb Tower	Tower Plumb	each	0	41	2.00	\$	913.00				\$ -			
_	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$	636.64				-			
_	Hang Travellers	Hang Travellers	each	0	8	1.50	\$	1,444.07				-			
H	Гie -in	Tie -in	each each	0	12	2.50	\$	676.30				\$ - \$ -			
L	Total C	ost = \$ 2.96	6 per pound				Φ		\$ - \$ 69,172.04			\$ - \$ -			
	Total G	DSI = φ 2.900	o per pourid	I					Φ 09,172.04	φ	-	φ -			
	S1-D16 Assembly and Erection of Suspension To	wor Type "A2 + 3" as per dwa	Total struct	ture count:	0	EA				\$		\$ 70,503.31 \$		\$ 70,503.31	¢
	S1-D16 Assembly and Erection of Suspension Tower									•		7 0,000,01 Q		Ψ 10,000.31	*
•		3893 Total Tower Height(ft) =		Section Weight (lb) =	22181										
5	Site Preparation	Site Preparation	each	0	2	2.00	\$	675.12	\$ 1,350.24	\$	- 0	\$ -			
_	Haul	Hauling	each	0	1	15.68	\$	441.04				\$ -			
5	Setup Blocks	Blocking Crew	each	0	3	2.00	\$	281.84				\$ -			
_	Assemble Tower	Lattice Assembly	each	0	4	38.02	\$	_	\$ 45,013.88			\$ -			
Ī	nstall Guy Strand	Guy Install	each	0	39	3.00	\$		\$ 3,775.95	\$		\$ -			
F	Helicopter Set	HL Helicopter	each	0	27	0.00	\$	21,899.72	•	\$		\$ -			
(Crane Set	Y- Tower Erection	each	0	40	4.00	\$	1,482.09				\$ -			
L,	Plumb Tower	Tower Plumb	each	0	41	2.00	\$	913.00				\$ -			
_	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$	636.64				\$ -			
F			each	0	8	1.50	\$	1,444.07				\$ -			
F	Hang Travellers	Hang Travellers													
F	Hang Travellers Fie -in	Hang Travellers Tie -in	each	0	12	2.50	\$	676.30	•			\$ -			
F	0	Tie -in		0	12	2.50	\$		\$ 1,690.75 \$ - \$ 70,503.31	\$		\$ - \$ -			



<u> </u>	NALCOR 350 kV HVdc Line Construction Front 2 (L	ong Range Mounta					Crew Cost						Total Unit Cost	
t				Units		Hours per							Manhours and	
Ľ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	04.045.4 11 15 41 40 1 5 5 5	"40 45"	T-1-1-1-1					•			* 70.040.40	•	* 70.040.40	
	S1-D17 Assembly and Erection of Suspension Tower Type		Total struct		0	EA		\$	-		\$ 72,348.16	>	72,348.16	a
•	S1-D17 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (lb) = 24825	Total Tower Height(ft) =		Section Weight (lb) =	22997									
Г	Site Preparation		each	Section Weight (ib) =	22997	2.00	\$ 675.12 \$	1,350.24 \$		0	\$ - I			
	Haul	Site Preparation Hauling	each	0	1	16.11	\$ 441.04 \$	7,104.47 \$		0				
	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84 \$			0				
	Assemble Tower	Lattice Assembly	each	0	4	39.42	\$ 1,183.92 \$	46,669.30 \$		0	•			
	Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65 \$	3,775.95 \$		0				
	Helicopter Set	HI Helicopter	each	0	27	0.00	\$ 21.899.72 \$	- \$		0	•			
	Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09 \$	5,928.38 \$		0	\$ -			
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00 \$	-	0	\$ -			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64 \$	1,273.27 \$	-	0				
r	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444.07 \$	2,166.10 \$	-	0	\$ -			
F	Tie -in	Tie -in	each	0	12	2.50	\$ 676.30 \$	1,690.75 \$		0				
ſ			each	0			\$ - \$	Ψ	-	0	\$ -			
	Total Cost =	\$ 2.92	23 per pound				\$	72,348.16 \$			\$ -			
	S1-D18 Assembly and Erection of Suspension Tower Type				6	EA		\$	435,614.67		\$ 72,602.45	\$	\$ 72,602.45	\$
,	S1-D18 Assembly and Erection of Suspension Tower Type "A													
г	Total Tower Weight With Guys and Ext. (lb) = 25053	Total Tower Height(ft) =		Section Weight (lb) =	23109				2 121 1					
_	Site Preparation	Site Preparation	each	6	2	2.00	\$ 675.12 \$			6				
_	Haul	Hauling	each	6	1	16.17	\$ 441.04 \$	1 1 1 1 1 1	42,783.50	6				
-	Setup Blocks	Blocking Crew	each	6	3	2.00	\$ 281.84 \$		3,382.11	6				
_	Assemble Tower	Lattice Assembly	each	6	4	39.61		46,897.47 \$	281,384.85	6				
_	Install Guy Strand Helicopter Set	Guy Install	each each	0	39 27	3.00 0.00	\$ 1,258.65 \$ 21.899.72 \$		22,655.70	6				
_	Crane Set	HL Helicopter	each	6	40	4.00	\$ 1,482.09 \$	¥	35,570.26	6	*			
_	Plumb Tower	Y- Tower Erection Tower Plumb	each	6	40	2.00	\$ 913.00 \$		10.956.02	6				
	haul Insulators and Travellers	Haul Travellers&Glass	each	6	7	2.00	\$ 636.64 \$		7,639.65	6	, , , , , ,			
	Hang Travellers	Hang Travellers	each	6	8	1.50	\$ 1,444.07 \$		12,996.60	6	· /			
_	Tie -in	Tie -in	each	6	12	2.50	\$ 6 76.30 \$		10.144.53	6				
ŀ		110 111	each	6		2.00	\$ - \$		-	6	· · · · · · · · · · · · · · · · · · ·			
L	Total Cost =	\$ 2.92	20 per pound	- 1			\$		435,614.67	-	\$ 72,602.45			
		,		•				, , , , , , , , , , , , , , , , , , ,	,-	-	, , , , , , , , , , , , , , , , , , , ,			
	S1-D19 Assembly and Erection of Suspension Tower Type	e "A2 + 7.5" as per	Total struct	ture count:	6	EA		\$	447,012.81		\$ 74,502.13	\$ -	\$ 74,502.13	\$
	S1-D19 Assembly and Erection of Suspension Tower Type "A	.2 + 7.5" as per dwg. 5	05573-4622-43	3DD-0044										
	Total Tower Weight With Guys and Ext. (lb) = 26009	Total Tower Height(ft) =		Section Weight (lb) =	23949									
	Site Preparation	Site Preparation	each	6	2	2.00	\$ 675.12 \$	1,350.24 \$	8,101.47	6	· /			
3		Site Preparation			1	16.61	\$ 441.04 \$	7,325.64 \$	43,953.85	6	\$ 7,325.64			
; ;	Haul	Site Preparation Hauling	each	6										
* * * * *	Haul Setup Blocks	Hauling Blocking Crew	each each	6	3	2.00	\$ 281.84 \$	563.68 \$	3,382.11	6				
	Haul Setup Blocks Assemble Tower	Hauling Blocking Crew Lattice Assembly	each each each	6 6	3 4	2.00 41.05	\$ 281.84 \$ \$ 1,183.92 \$	48,602.11 \$	291,612.63	6	\$ 48,602.11			
* * * * * * * * * * * * * * * * * * *	Haul Setup Blocks Assemble Tower Install Guy Strand	Hauling Blocking Crew Lattice Assembly Guy Install	each each each each	6 6	3 4 39	2.00 41.05 3.00	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$	48,602.11 \$ 3,775.95 \$	291,612.63 22,655.70	6	\$ 48,602.11 \$ 3,775.95			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each		3 4 39 27	2.00 41.05 3.00 0.00	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$	48,602.11 \$ 3,775.95 \$ - \$	291,612.63 22,655.70	6 6 6	\$ 48,602.11 \$ 3,775.95 \$ -			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each each		3 4 39 27 40	2.00 41.05 3.00 0.00 4.00	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$	291,612.63 22,655.70 - 35,570.26	6 6 6	\$ 48,602.11 \$ 3,775.95 \$ - \$ 5,928.38			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each		3 4 39 27 40 41	2.00 41.05 3.00 0.00 4.00 2.00	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$	48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$	291,612.63 22,655.70 - 35,570.26 10,956.02	6 6 6 6	\$ 48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each		3 4 39 27 40 41	2.00 41.05 3.00 0.00 4.00 2.00 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$	48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$	291,612.63 22,655.70 - 35,570.26 10,956.02 7,639.65	6 6 6 6 6	\$ 48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Exection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each each	6 6 6 6 6	3 4 39 27 40 41 7	2.00 41.05 3.00 0.00 4.00 2.00 2.00 1.50	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 1,482.09 \$ 1,444.07 \$	48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$	291,612.63 22,655.70 - 35,570.26 10,956.02 7,639.65 12,996.60	6 6 6 6 6 6	\$ 48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10			
	Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each		3 4 39 27 40 41 7 8	2.00 41.05 3.00 0.00 4.00 2.00 2.00	\$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$	48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$	291,612.63 22,655.70 - 35,570.26 10,956.02 7,639.65	6 6 6 6 6	\$ 48,602.11 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75			



J	NALCOR 350 kV HVdc Line Construction Front 2 (L	ong Range Mountair					Crew Cost						Total Unit Cost	
t				Units		Hours per							Manhours and	
L	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D20 Assembly and Erection of Suspension Tower Type	e "Δ2 + 9" as ner dwα	Total struc	cture count:	11	EA		\$	834,167.54	\$	75,833.41	.	\$ 75,833.41	\$
	S1-D20 Assembly and Erection of Suspension Tower Type "A				•••			•	001,101101	· ·	10,000111		Ψ 70,000.11	•
	Total Tower Weight With Guys and Ext. (lb) = 26713	Total Tower Height(ft) =	136	Section Weight (lb) =	24538									
[Site Preparation	Site Preparation	each	11		2.00	\$ 675.12 \$	1.350.24 \$	14.852.69	11 \$	1.350.24			
<u> </u>	Haul	Hauling	each	11	1	16.92	\$ 441.04 \$	7,462.34 \$	82,085.70		7,462.34			
<u> </u>	Setup Blocks	Blocking Crew	each	11	3	2.00	\$ 281.84 \$	563.68 \$			563.68			
	Assemble Tower	Lattice Assembly	each	11		42.06	\$ 1,183.92 \$	49,796.69 \$	547,763.58		49,796.69			
	Install Guy Strand	Guy Install	each	11		3.00	\$ 1,258.65 \$	3,775.95 \$	41,535.44		3,775.95			
_	Helicopter Set	HL Helicopter	each	11		0.00	\$ 21,899.72 \$	- \$		11 \$	-			
	Crane Set	Y- Tower Erection	each	11		4.00	\$ 1,482.09 \$	5,928.38 \$	65,212.14		5,928.38			
<u> </u>	Plumb Tower	Tower Plumb	each	11		2.00	\$ 913.00 \$	1,826.00 \$			1,826.00			
<u> </u>	naul Insulators and Travellers	Haul Travellers&Glass	each	11		2.00	\$ 636.64 \$	1,273.27 \$			1,273.27			
<u> </u>	Hang Travellers	Hang Travellers	each	11		1.50	\$ 1,444.07 \$	2,166.10 \$			2,166.10			
-	Tie -in	Tie -in	each	11		2.50	\$ 676.30 \$	1,690.75 \$			1,690.75			
f			each	11			\$ - \$			11 \$				
<u>. </u>	Total Cost =	\$ 2.881	per pound	1		<u>, </u>	\$	75,833.41 \$	834,167.54		75,833.41			
				•										
;	S1-D21 Assembly and Erection of Suspension Tower Type	e "A2 + 10.5" as per	Total struc	cture count:	5	EA		\$	388,391.28	\$	77,678.26	\$ -	\$ 77,678.26	\$
;	S1-D21 Assembly and Erection of Suspension Tower Type "A	.2 + 10.5" as per dwg. 50	05573-4622-	43DD-0044		_					·			
	Total Tower Weight With Guys and Ext. (lb) = 27645	Total Tower Height(ft) =	141	Section Weight (lb) =	25353									
;	Site Preparation	Site Preparation	each	5	2	2.00	\$ 675.12 \$	1,350.24 \$	6,751.22	5 \$	1,350.24			
Ī	Haul	Hauling	each	5	1	17.35	\$ 441.04 \$	7,651.76 \$	38,258.81	5 \$	7,651.76			
;	Setup Blocks	Blocking Crew	each	5	3	2.00	\$ 281.84 \$	563.68 \$	2,818.42	5 \$	563.68			
/	Assemble Tower	Lattice Assembly	each	5	4	43.46	\$ 1,183.92 \$	51,452.10 \$	257,260.52	5 \$	51,452.10			
Ī	nstall Guy Strand	Guy Install	each	5	39	3.00	\$ 1,25 8.65 \$	3,775.95 \$	18,879.75	5 \$	3,775.95			
Ī	Helicopter Set	HL Helicopter	each	5	27	0.00	\$ 21,899.72 \$	- \$	-	5 \$	-			
(Crane Set	Y- Tower Erection	each	5	40	4.00	\$ 1,482.09 \$	5,928.38 \$	29,641.88	5 \$	5,928.38			
Ī	Plumb Tower	Tower Plumb	each	5	41	2.00	\$ 913.00 \$	1,826.00 \$	9,130.02	5 \$	1,826.00			
I	naul Insulators and Travellers	Haul Travellers&Glass	each	5	7	2.00	\$ 636.64 \$	1,273.27 \$	6,366.37	5 \$	1,273.27			
Ī	Hang Travellers	Hang Travellers	each	5	8	1.50	\$ 1,444.07 \$	2,166.10 \$	10,830.50	5 \$	2,166.10			
-	Tie -in	Tie -in	each	5	12	2.50	6 76.30 \$	1,690.75 \$	8,453.77	5 \$	1,690.75			
			each	5			\$ - \$	- \$	-	5 \$	=			
	Total Cost =	\$ 2.861	per pound	1			\$	77,678.26 \$	388,391.28	\$	77,678.26			
	S1-D22 Assembly and Erection of Suspension Tower Type				12	EA		\$	934,532.37	\$	77,877.70	-	\$ 77,877.70	\$
;	S1-D22 Assembly and Erection of Suspension Tower Type "A													
,	Total Tower Weight With Guys and Ext. (lb) = 27849	Total Tower Height(ft) =	146	Section Weight (lb) =	25441									
-	Site Preparation	Site Preparation	each	12			\$ 675.12 \$	1,350.24 \$			1,350.24			
	Haul	Hauling	each	12		17.40	\$ 441.04 \$	7,672.24 \$	- /		7,672.24			
<u> </u>	Setup Blocks	Blocking Crew	each	12		2.00	\$ 281.84 \$	563.68 \$	6,764.21		563.68			
	Assemble Tower	Lattice Assembly	each	12		43.61	\$ 1,183.92 \$	51,631.07 \$	619,572.82		51,631.07			
_	nstall Guy Strand	Guy Install	each	12		3.00	\$ 1,258.65 \$	3,775.95 \$	45,311.39		3,775.95			
-	Helicopter Set	HL Helicopter	each	12		0.00	\$ 21,899.72 \$	- \$	-	12 \$	-			
_	Crane Set	Y- Tower Erection	each	12	40	4.00	\$ 1,482.09 \$	5,928.38 \$	71,140.52		5,928.38			
	Plumb Tower	Tower Plumb	each	12		2.00	\$ 913.00 \$	1,826.00 \$			1,826.00			
_	naul Insulators and Travellers	Haul Travellers&Glass	each	12		2.00	\$ 636.64 \$	1,273.27 \$	-,		1,273.27			
- 11	Hang Travellers	Hang Travellers	each	12		1.50	\$ 1,444.07 \$	2,166.10 \$		12 \$	2,166.10			
<u> </u>	Tie -in	Tie -in	each	12		2.50	\$ 676.30 \$	1,690.75 \$	-,		1,690.75			
<u> </u>				10			\$ - \$	- \$	-	12 \$	-			
	Total Cost =	\$ 2.859	each per pound	12			- φ	77,877.70 \$			77,877.70			



NAL	.COR 350 kV HVdc Line Construction Front 2 (Lo	<mark>ong Range Mounta</mark>					Crew Cost						Total Unit Cost	
				Units		Hours per			0.14.4.1	,			Manhours and	
Desc	ription			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
C4 D	192 Accomply and Freetien of Systematica Tower Time	"A2 - 42 E"	Total atmos	tura aquest.	4			\$	240 400 EE		\$ 79.777.39	•	¢ 70.777.20	ı e
	123 Assembly and Erection of Suspension Tower Type 123 Assembly and Erection of Suspension Tower Type "A2		Total struct		4	EA		Ф	319,109.55		\$ 79,777.39	Ъ	- \$ 79,777.39	Þ
31-0	Total Tower Weight With Guys and Ext. (lb) = 28805	Z + 13.5 as per dwg. t Total Tower Height(ft) =		Section Weight (lb) =	26281									
Site I	Preparation	Site Preparation	each	Section Weight (ib) =	2	2.00	\$ 675.12 \$	1,350.24 \$	5,400.98	1	\$ 1,350.24			
Haul		Site Preparation Hauling	each	4	1	17.84	\$ 441.04 \$	7,867.30 \$	31,469.20		\$ 7,867.30			
	p Blocks	Blocking Crew	each	4	3	2.00	\$ 281.84	563.68 \$	2,254.74		\$ 563.68			
	mble Tower	Lattice Assembly	each	4	4	45.05	\$ 1,183.92	53,335.70 \$	213,342.80	4				
	Il Guy Strand	Guy Install	each	4	39	3.00	\$ 1,258.65	3,775.95 \$	15,103.80		\$ 3,775.95			
	copter Set	HL Helicopter	each	4	27	0.00	\$ 21.899.72	- \$	-		\$ -			
	e Set	Y- Tower Erection	each	4	40	4.00	\$ 1,482.09	5,928.38 \$	23,713.51	4	\$ 5,928.38			
Plum	b Tower	Tower Plumb	each	4	41	2.00	\$ 913.00 \$	1,826.00 \$	7,304.01	4	\$ 1,826.00			
	Insulators and Travellers	Haul Travellers&Glass	each	4	7	2.00	\$ 636.64 \$	3 1,273.27 \$	5,093.10					
Hang	g Travellers	Hang Travellers	each	4	8	1.50	\$ 1,444.07 \$	2,166.10 \$	8,664.40	4	\$ 2,166.10			
Tie -i	n	Tie -in	each	4	12	2.50	\$ 676.30 \$	1,690.75 \$	6,763.02	4	\$ 1,690.75			
			each	4			\$ - \$, Ψ	-	4	\$ -			
	Total Cost =	\$ 2.84	0 per pound				\$	79,777.39 \$	319,109.55		\$ 79,777.39			
	24 Assembly and Erection of Suspension Tower Type				4	EA		\$	332,636.68		\$ 83,159.17	\$	- \$ 83,159.17	\$
S1-D	24 Assembly and Erection of Suspension Tower Type "A2			DD-0044										
	Total Tower Weight With Guys and Ext. (lb) = 29761	Total Tower Height(ft) =	156	Section Weight (lb) =	27121									
	Preparation	Site Preparation	each	4	2	2.00	\$ 675.12				\$ 1,350.24			
Haul		Hauling	each	4	1	18.28	\$ 441.04 \$		32,249.43		\$ 8,062.36			
	p Blocks	Blocking Crew	each	4	3	2.00	\$ 281.84 \$		2,254.74		1			
	mble Tower	Lattice Assembly	each	4	4	4 6.49		55,040.33 \$	220,161.32		\$ 55,040.33			
	Il Guy Strand	Guy Install	each	4	39	3.00	\$ 1, 2 58.65 \$		15,103.80		\$ 3,775.95			
	opter Set	HL Helicopter	each	4	27	0.00	\$ 21,899.72	γ Ψ	-		\$ -			
	e Set	Y- Tower Erection	each	4	40	5.00	\$ 1,482.09		29,641.88		\$ 7,410.47			
	b Tower	Tower Plumb	each	4	41	2.00	\$ 913.00 \$		7,304.01		\$ 1,826.00			
	Insulators and Travellers	Haul Travellers&Glass	each	4	7	2.00	\$ 636.64 \$		5,093.10		\$ 1,273.27			
	Travellers	Hang Travellers	each	4	8	1.50	\$ 1,444.07		8,664.40		\$ 2,166.10			
Tie -i	<u>n</u>	Tie -in	each	4	12	2.50	\$ 676.30	,	6,763.02		\$ 1,690.75			
	T-4-1 O4	Φ 0.07	each	4			- \$	Ψ	-		\$ -			
	Total Cost =	\$ 2.87	7 per pound	1			\$	83,159.17 \$	332,636.68		\$ 83,159.17			
64 D	25 Assembly and Erection of Suspension Tower Type	"A2 . 46 E" ac nor	Total struct	turo count:	6	EA		\$	506,942.69		\$ 84,490.45	¢	- \$ 84,490.45	l e
	125 Assembly and Erection of Suspension Tower Type				0			Ψ	300,942.09		φ 04,430.43	Ψ	-	Ψ
01-0	Total Tower Weight With Guys and Ext. (lb) = 30466	Total Tower Height(ft) =		Section Weight (lb) =	27710									
Site F	Preparation	Site Preparation	each	6	2	2.00	\$ 675.12 \$	1,350.24 \$	8,101.47	6	\$ 1,350.24			
Haul		Site Preparation Hauling	each	6	1	18.59	\$ 441.04 \$	8.199.05 \$	49.194.32		\$ 8.199.05			
	p Blocks	Blocking Crew	each	6	3	2.00	\$ 281.84 \$	5 563.68 \$	3,382.11		1 -,			
	mble Tower	Lattice Assembly	each	6	4	47.50	\$ 1,183.92	56,234.91 \$	337,409.48		•			
	Il Guy Strand	Guy Install	each	6	39	3.00	\$ 1.258.65	3.775.95 \$	22,655.70		\$ 3,775.95			
	copter Set	HL Helicopter	each	6	27	0.00	\$ 21,899.72 \$	5 - \$	-		\$ -			
	e Set	Y- Tower Erection	each	6	40	5.00	\$ 1,482.09	7,410.47 \$	44,462.82					
	b Tower	Tower Plumb	each	6	41	2.00	\$ 913.00 \$	1,826.00 \$	10,956.02		, , ,			
Plum	Insulators and Travellers	Haul Travellers&Glass	each	6	7	2.00	\$ 636.64 \$	1,273.27 \$	7,639.65		\$ 1,273.27			
		Hang Travellers	each	6	8	1.50	\$ 1,444.07	2,166.10 \$	12,996.60		\$ 2,166.10			
haul	Travellers						,	, ,	10.144.53					
haul	,	Tie -in	each	6	12	2.50	\$ 676.30 \$	1,690.75 \$	10,144.55	01	φ 1,080.75			
haul Hang	,		each each	6	12	2.50	\$ 676.30 \$	5 1,690.75 \$ 6 - \$	10,144.55		\$ 1,090.73			



	NALCOR 350 kV HVdc Line Construction Front 2	2 (Long Range Mountai	<mark>in</mark> s)				Crew Cost						Total Unit Cost	
ent		, , ,		Units		Hours per							Manhours and	
Ų	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Of DOS Assembly and Exercises of Occasion Towns	T	Tatal atm.a		4	EA			¢ 05 004 70	•	0E 024 72	•	¢ 05 004 70	·
6	S1-D26 Assembly and Erection of Suspension Tower T	Type "A2 + 18" as per dwg	g. Total Struc	ture count:	1	_ EA			\$ 85,821.73	5	85,821.73	-	\$ 85,821.73	\$
	S1-D26 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (lb) = 31170			Section Weight (lb) =	28299									
	Site Preparation	3 ()	each	Section Weight (ib) =	20299	2.00	\$ 675.12	1,350.24	\$ 1,350.24	1 \$	1,350.24			
	Haul	Site Preparation	each	1	1	18.90	\$ 441.04				8,335.75			
	Setup Blocks	Hauling Blocking Crew	each	1	3	2.00	\$ 281.84	563.68			563.68			
	Assemble Tower	Lattice Assembly	each	1	4	48.51	\$ 1,183.92	57,429.50			57,429.50			
	Install Guy Strand	Guy Install	each	1	39	3.00	\$ 1,258.65	3,775.95			3,775.95			
	Helicopter Set	HL Helicopter	each	1	27	0.00	\$ 21,899.72	3,773.33	\$ -	1 \$	5,775.55			
	Crane Set	Y- Tower Erection	each	1	40	5.00	\$ 1,482.09	7,410.47	\$ 7,410.47		7,410.47			
	Plumb Tower	Tower Plumb	each	1	41	2.00	\$ 913.00		\$ 1,826.00		1,826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	1	7	2.00	\$ 636.64		\$ 1,273.27		1,273.27			
	Hang Travellers	Hang Travellers	each	1	8	1.50	\$ 1,444.07	2,166.10			2,166.10			
	Tie -in	Tie -in	each	1	12	2.50	\$ 676.30				1,690.75			
			each	1			\$ - 9		\$ -	1 \$	-			
	Total Cost =	\$ 2.85	1 per pound		=4		\$	85,821.73	\$ 85,821.73	\$	85,821.73			
				•										
,	S1-D27 Assembly and Erection of Suspension Tower T	Type "A2 + 19.5" as per	Total struc	ture count:	2	EA			\$ 173,069.47	\$	86,534.73	\$ -	\$ 86,534.73	\$
	S1-D27 Assembly and Erection of Suspension Tower Type	e "A2 + 19.5" as per dwg. 5	05573-4622-4	3DD-0044		_								
	Total Tower Weight With Guys and Ext. (lb) = 32326	Total Tower Height(ft) =	171	Section Weight (lb) =	28614									
	Site Preparation	Site Preparation	each	2	2 2	2.00	\$ 675.12	1,350.24	\$ 2,700.49		1,350.24			
	Haul	Hauling	each	2	1	19.07	\$ 441.04 \$			2 \$	8,408.96			
	Setup Blocks	Blocking Crew	each	2	3	2.00	\$ 281.84 \$				563.68			
	Assemble Tower	Lattice Assembly	each	2		49.05	\$ 1,183.92	58,069.29			58,069.29			
	Install Guy Strand	Guy Install	each	2	- 00	3.00	\$ 1,2 58.65	3,775.95	\$ 7,551.90		3,775.95			
	Helicopter Set	HL Helicopter	each	2		0.00	\$ 21,899.72			2 \$	-			
	Crane Set	Y- Tower Erection	each	2		5.00	\$ 1,482.09				7,410.47			
						0.00	¢ 042.00 ¢	1,826.00	\$ 3,652.01		1,826.00			
	Plumb Tower	Tower Plumb	each	2		2.00	\$ 913.00							
	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each	2	7	2.00	\$ 636.64	1,273.27	\$ 2,546.55		1,273.27			
	haul Insulators and Travellers Hang Travellers		each each	2	2	2.00 1.50	\$ 636. 64 \$ 1,444.07 \$	1,273.27 2,166.10	\$ 2,546.55 \$ 4,332.20	2 \$	2,166.10			
	haul Insulators and Travellers	Haul Travellers&Glass	each each each	2 2 2	7 8 12 12	2.00	\$ 636.64 \$ 1,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,690.75	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51	2 \$ 2 \$				
	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers&Glass Hang Travellers Tie -in	each each each each	2	7 8 12 12	2.00 1.50	\$ 636. 64 \$ 1,444.07 \$	1,273.27 2,166.10 1,690.75	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ -	2 \$ 2 \$ 2 \$	2,166.10 1,690.75			
	haul Insulators and Travellers Hang Travellers	Haul Travellers&Glass Hang Travellers Tie -in	each each each	2 2 2	7 8 12 12	2.00 1.50	\$ 636.64 \$ 1,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,690.75	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ -	2 \$ 2 \$ 2 \$	2,166.10 1,690.75			
	haul Insulators and Travellers Hang Travellers Tie -in Total Cost =	Haul Travellers & Glass Hang Travellers Tile -in \$ 2.84	each each each each	2 2 2 2	8 12	2.00 1.50 2.50	\$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$	1,273.27 2,166.10 1,690.75 - 86,534.73	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47	2 \$ 2 \$ 2 \$	2,166.10 1,690.75			
	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Towel	Haul Travellers & Glass Hang Travellers Tile -in \$ 2.845 or Type "A3"	each each each each each each per pound	Z Z Z Z Z	7 8 12	2.00 1.50 2.50	\$ 636.64 \$ 1,444.07 \$ 676.30 \$	1,273.27 2,166.10 1,690.75 86,534.73	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47	2 \$ 2 \$ 2 \$	2,166.10 1,690.75 - 86,534.73			
	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T	Haul Travellers AGlass Hang Travellers Tile -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg.	each each each each per pound	Tower Setting	8 12	2.00 1.50 2.50	\$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$	1,273.27 2,166.10 1,690.75 86,534.73	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47	2 \$ 2 \$	2,166.10 1,690.75	\$ -	\$ 52,570.80	 \$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type	Haul Travellers & Glass Hang Travellers Tile -in \$ 2.845 ET Type "A3" Type "A3 + 0" as per dwg. 5055 e "A3 + 0" as per dwg. 5055	each each each each 5 per pound Total struc	Tower Setting ture count:	7 8 12 ng Ratio	2.00 1.50 2.50	\$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$	1,273.27 2,166.10 1,690.75 86,534.73	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47	2 \$ 2 \$	2,166.10 1,690.75 - 86,534.73	\$ -	\$ 52,570.80	 \$
8	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib.) = 16808	Haul Travellers & Glass Hang Travellers Tile -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. 5055 e "A3 + 0" as per dwg. 5055	each each each each 5 per pound Total struc 73-4622-43D 147	Tower Setting	7 8 12 12 ng Ratio 0	2.00 1.50 2.50 2.60 EA	\$ 636.64 \$ 1,444.07 \$ 676.30 \$ \$ \$	1,273.27 2,166.10 1,690.75 - 86,534.73	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ -	2 \$ 2 \$ 2 \$	2,166.10 1,690.75 - 86,534.73	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (lb) = 16808 Site Preparation	Haul Travellers & Gliass Hang Travellers Tile -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 3 Total Tower Height(ft) = Site Preparation	each each each each 5 per pound Total struc 73-4622-43D 147 each	Tower Setting ture count: 0-0050 Section Weight (lb) =	7 8 12 12 ng Ratio 0	2.00 1.50 2.50 0.00 EA	\$ 636.64 \$ 1,444.07 \$ 676.30 \$ - 3 \$ Helicopter	1,273.27 2,166.10 1,690.75 - 86,534.73 100%	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ -	2 \$ 2 \$ 2 \$ 7 \$ \$ \$ \$ \$	2,166.10 1,690.75 - 86,534.73 52,570.80	\$ -	\$ 52,570.80	 \$
8	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul	Haul Travellers & Gliass Hang Travellers Tile -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 3 Total Tower Height(ft) = Site Preparation Hauling	each each each each 5 per pound Total struc 73-4622-43D 147 each each	Tower Settinture count: 0-0050 Section Weight (lb) =	7 8 12 ng Ratio 0 15745	2.00 1.50 2.50 0.00 EA	\$ 636.64 \$ 1,444.07 \$ \$ 676.30 \$ \$ - \$ \$ \$ \$ 675.12 \$ \$ 441.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,273.27 2,166.10 1,690.75 - 86,534.73 100%	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ - \$ -	2 \$ 2 \$ 2 \$ 2 \$ 5 6 \$ 7 \$ 8	2,166.10 1,690.75 - 86,534.73 52,570.80	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower T you total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks	Haul Travellers & Gliass Hang Travellers Tile -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each 5 per pound Total struc 573-4622-43D 147 each each each	Tower Settinture count: 0-0050 Section Weight (lb) =	7 8 12 12 15745 1 2 1 3	2.00 1.50 2.50 0.00 EA	\$ 636.64 \$ 1,444.07 \$ \$ 676.30 \$ \$ - \$ \$ \$ 441.04 \$ \$ 281.84 \$ \$	1,273.27 2,166.10 1,690.75 - 86,534.73 100% 1,350.24 5,420.62 563.68	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ - \$ - \$ -	2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower	Haul Travellers&Glass Hang Travellers Tie-in \$ 2.845 FT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 3 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each 5 per pound Total struc 73-4622-43D 147 each each each each	Tower Settinture count: 0-0050 Section Weight (lb) =	7 8 12 12 15745 2 1 3 4	2.00 1.50 2.50 0.00 EA	\$ 636.64 \$ 1,444.07 \$ \$ 676.30 \$ \$ - \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$	1,273.27 2,166.10 1,690.75 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 2 \$	2,166.10 1,690.75 - 86,534.73 52,570.80 - - -	\$ -	\$ 52,570.80	 \$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Typer Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Haul Travellers & Gliass Hang Travellers Tile -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each 5 per pound Total struc 573-4622-43D 147 each each each each each	Tower Settinture count: 0-0050 Section Weight (lb) =	7 8 12 12 15745 1 3 4 39	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00	\$ 636.64 \$ 1,444.07 \$ \$ 676.30 \$ \$ - \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$	1,273.27 2,166.10 1,690.75 - 86,534.73 100% 1,350.24 5,420.62 563.68	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ -	2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (lb) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Haul Travellers Cliass Hang Travellers Tie -in \$ 2.84{ ET Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each 5 per pound Total struc 573-4622-43D 147 each each each each each each	Tower Settinture count: D-0050 Section Weight (lb) =	7 8 12 12 15745 0 15745 1 3 4 39 27	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00 0.00	\$ 636.64 \$ 1,444.07 \$ \$ 676.30 \$ \$ - \$ \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$	1,273.27 2,166.10 1,690.75 - 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99 2,517.30	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ - \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 2 \$	2,166.10 1,690.75 - 86,534.73 52,570.80 - - - - - -	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Typer Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Haul Travellers Cliass Hang Travellers Tile -in \$ 2.84{ PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each 5 per pound Total struc 573-4622-43D 147 each each each each each each each each	Tower Settinture count: 0-0050 Section Weight (lb) =	7 8 12 12 15745 1 2 1 1 2 3 4 39 27 40	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00 0.00 3.50	\$ 636.64 \$ 1,444.07 \$ 5 676.30 \$ 5 - \$ 3 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,273.27 2,166.10 1,690.75 - 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99 2,517.30 - 5,187.33	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80 - - - - - - -	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Haul Travellers Cliass Hang Travellers Tile -in \$ 2.84{ PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each 5 per pound Total struc 573-4622-43D 147 each each each each each each each each	Tower Settinture count: D-0050 Section Weight (lb) =	7 8 12 12 15745 0 15745 0 2 1 1 3 4 39 27 40 41	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00 0.00 3.50 2.00	\$ 636.64 \$ 1,444.07 \$ 5 676.30 \$ 5 - \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	1,273.27 2,166.10 1,690.75 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99 2,517.30 - 5,187.33 1,826.00	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80 - - - - - - - -	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Haul Travellers Cliass Hang Travellers Tie -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Hi. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass	each each each each 5 per pound Total struc 573-4622-43D 147 each each each each each each each each	Tower Settiliture count: D-0050 Section Weight (lb) =	7 8 12 12 15745 1 2 1 1 2 3 3 4 3 39 27 40 41	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00 0.00 3.50 2.00 1.50	\$ 636.64 \$ 1,444.07 \$ 5 676.30 \$ \$ 676.30 \$ \$ 5 676.30 \$ \$ 5 676.30 \$ \$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,273.27 2,166.10 1,690.75 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99 2,517.30 - 5,187.33 1,826.00 954.96	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80 - - - - - - - - - -	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Haul Travellers Class Hang Travellers Tie-in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install I-L Helicopter Y- Tower Erection Tower Plumb Haul Travellers Class Hang Travellers	each each each each 5 per pound Total struc 573-4622-43D 147 each each each each each each each each	Tower Settiliture count: D-0050 Section Weight (lb) =	7 8 12 12 15745 1 2 1 3 3 4 3 39 27 40 41 7	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00 0.00 3.50 2.00 1.50 1.00	\$ 636.64 \$ 1,444.07 \$ \$ 676.30 \$.	1,273.27 2,166.10 1,690.75 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99 2,517.30 	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80 - - - - - - - - - - -	\$ -	\$ 52,570.80	\$
3	haul Insulators and Travellers Hang Travellers Tie -in Total Cost = Assembly and Erection of Suspension Tower S1-D28 Assembly and Erection of Suspension Tower T S1-D28 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 16808 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Haul Travellers Cliass Hang Travellers Tie -in \$ 2.845 PT Type "A3" Type "A3 + 0" as per dwg. e "A3 + 0" as per dwg. 5055 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Hi. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass	each each each each 5 per pound Total struc 573-4622-43D 147 each each each each each each each each	Tower Settiliture count: D-0050 Section Weight (lb) =	7 8 12 12 15745 2 1 3 4 3 9 27 40 41 7 8	2.00 1.50 2.50 0.00 EA 2.00 12.29 2.00 26.99 2.00 0.00 3.50 2.00 1.50	\$ 636.64 \$ 1,444.07 \$ 5 676.30 \$ \$ 676.30 \$ \$ 5 676.30 \$ \$ 5 676.30 \$ \$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 636.64 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,273.27 2,166.10 1,690.75 86,534.73 100% 1,350.24 5,420.62 563.68 31,953.99 2,517.30 - 5,187.33 1,826.00 954.96	\$ 2,546.55 \$ 4,332.20 \$ 3,381.51 \$ 173,069.47 Crane \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 2 \$ 2 \$ 2 \$ 3 \$ 5 \$ 6 \$ 7 \$ 8 \$ 7 \$ 8 \$ 8 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9 \$ 9	2,166.10 1,690.75 - 86,534.73 52,570.80 - - - - - - - - - -	\$ -	\$ 52,570.80	\$



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Ran	nge Mountair	<mark>า</mark> ร)				Crew Co	ost						Total Unit Cost	
nent				Units		Hours per								Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate)	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
									_						
29	S1-D29 Assembly and Erection of Suspension Tower Type "A3 + 1.5		Total struct		1	EA			\$	53,717.60	\$	53,717.60	\$	- \$ 53,717.60	\$
	S1-D29 Assembly and Erection of Suspension Tower Type "A3 + 1.5" a				40050										
		wer Height(ft) =		Section Weight (lb) =	16253	0.00	Δ	75.40	4.050.04	4.050.0	1 4 6	4.050.04	т		
	Site Preparation Site Preparation	ation	each each	1	2	2.00 12.56		75.12 \$ 41.04 \$	1,350.24 \$ 5,538.37 \$	1,350.2 ² 5,538.37		1,350.24 5,538.37	+		
			each	1	3	2.00	•	81.84 \$	563.68 \$	5,538.37		5,538.37	 		
	Setup Blocks Assemble Tower Lattice Asser		each	1	4	27.86		83.92 \$	32.983.04 \$	32,983.04		32,983.04	+		
			each	1	39	27.00	,	58.65 \$	2,517.30 \$	2,517.30		2,517.30	+		
	Install Guy Strand Guy Install Helicopter Set HL Helicopter		each	1	27	0.00	\$ 21.8		2,517.30 \$	2,517.30	1 \$	2,317.30	<u>.</u>		
	Crane Set Y-Tower Ere		each	1	40	3.50	, , , , , , , , , , , , , , , , , , , ,	82.09 \$	5,187.33 \$	5,187.33		5,187.33	1		
	Plumb Tower Tower Plumb		each	1	41	2.00	, ,	13.00 \$	1.826.00 \$			1.826.00	<u>.</u>		
	haul Insulators and Travellers Haul Travelle		each	1	7	1.50		36.64 \$	954.96 \$, , , , , ,		954.96	1		
	Hang Travellers Hang Travellers		each	1	8	1.00		44.07 \$	1.444.07 \$	1.444.07		1.444.07	Ì		
	Tie -in Tie -in	liers	each	1	12	2.00	,	76.30 \$	1,352.60 \$			1,352.60	†		
	TIC -III		each	1	12	2.00	\$	- \$	- \$		1 \$	1,002.00	1		
	Total Cost = \$	3 074	per pound			<u> </u>	Ψ	\$	53,717.60 \$	53,717.60		53,717.60	1		
	Total oost	0.07 1	por pourid	1				Ψ	σο,ι τι σο φ	00,717.00	Ψ	00,111.00			
0	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3"	as per dwg	Total struct	ure count:	2	EA			\$	108,811.35	\$	54,405.67	\$	- \$ 54,405.67	\$
•	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as									100,011100	Ψ	0-1, 100101	•	Ψ 01,100.01	*
	, , , , , , , , , , , , , , , , , , , ,	wer Height(ft) =		Section Weight (lb) =	16557										
	Site Preparation Site Preparation		each	2		2.00	\$ 6	75.12 \$	1,350.24 \$	2,700.49	2 \$	1,350.24	7		
	Haul Hauling	41011	each	2		12.72		41.04 \$	5,609.02 \$	11,218.05		5,609.02	†		
	Setup Blocks Blocking Cree	ou.	each	2		2.00		81.84 \$	563.68 \$	1,127.37		563.68	†		
	Assemble Tower Lattice Asser		each	2		28.38		83.92 \$	33,600.46 \$	67,200.92		33,600.46	†		
	Install Guy Strand Guy Install		each	2		2.00	\$ 1,2		2,517.30 \$	5,034.60		2,517.30	†		
	Helicopter Set HL Helicopte		each	2		0.00	\$ 21,8		- \$		2 \$	-	†		
	Crane Set Y-Tower Ere		each	2		3.50		82.09 \$	5,187.33 \$	10,374.66		5,187.33	†		
	Plumb Tower Tower Plumb		each	2		2.00		13.00 \$	1,826.00 \$	3,652.0		1,826.00	†		
	haul Insulators and Travellers		each	2		1.50		36.64 \$	954.96 \$	1,909.9		954.96	•		
	Hang Travellers		each	2	8	1.00		44.07 \$	1,444.07 \$	2,888.13		1,444.07	•		
	Tie -in	1015	each	2		2.00		76.30 \$	1,352.60 \$	2,705.2		1,352.60	†		
			each	2		2.00	\$	- \$	- \$		2 \$		†		
	Total Cost = \$	3 059	per pound	_				\$	54,405.67 \$	108,811.35		54,405.67	1		
	, otal 6551	0.000	l ber bearing	1				4	ψ 1,100.01 <u>ψ</u>	100,011100	Ψ Ψ	0 1, 100.01	_		
31	S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5	5" as per	Total struct	ture count:	_ 2	EA			\$	111,104.93	\$	55,552.47	\$	- \$ 55,552.47	\$
	S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" a		5573-4622-43	BDD-0050						•		•		,	
		wer Height(ft) =		Section Weight (lb) =	17064										
	Site Preparation Site Preparat	ation	each	2		2.00	\$ 6	75.12 \$	1,350.24 \$	2,700.49	2 \$	1,350.24	1		
	Haul		each	2		12.98		41.04 \$	5,726.78 \$	11,453.55		5,726.78	1		
	Setup Blocks Blocking Cree	ew	each	2	3	2.00	\$ 2	81.84 \$	563.68 \$	1,127.37		563.68	1		
				/ 0	4	29.25	\$ 1.1	83.92 \$	34,629.50 \$	69,259.01		34,629.50	†		
	Assemble Tower Lattice Asser	embly	each	2	4								†		
	Assemble Tower Lattice Asser Install Guy Strand Guy Install	embly	each	2		2.00		58.65 \$	2,517.30 \$	5,034.60) 2 \$	2,517.30			
					39				2,517.30 \$	5,034.60	2 \$	2,517.30	†		
	Install Guy Strand Guy Install	er	each	2	39 27	2.00	\$ 1,2 \$ 21,8		, ,		2 \$				
	Install Guy Strand Helicopter Set HI. Helicopte	er	each each	2 2	39 27 40	2.00 0.00	\$ 1,2 \$ 21,8 \$ 1,4	99.72 \$	- \$		2 \$	-			
	Install Guy Strand Helicopter Set Crane Set Y-Tower Ere	er rection	each each each	2 2 2	39 27 40 41	2.00 0.00 3.50	\$ 1,2 \$ 21,8 \$ 1,4 \$ 9	99.72 \$ 82.09 \$	- \$ 5,187.33 \$	10,374.66	2 \$ 3 2 \$ 2 \$	- 5,187.33			
	Install Guy Strand Guy Install Helicopter Set HL Helicopte Crane Set Y. Tower Ere Plumb Tower Tower Plumb haul Insulators and Travellers Haul Traveller	er rection ub	each each each each	2 2 2 2 2	39 27 40 41	2.00 0.00 3.50 2.00	\$ 1,2 \$ 21,8 \$ 1,4 \$ 9 \$ 6	99.72 \$ 82.09 \$ 13.00 \$	- \$ 5,187.33 \$ 1,826.00 \$	10,374.66 3,652.0	2 \$ 5 2 \$ 2 \$ 2 \$	5,187.33 1,826.00			
	Install Guy Strand Guy Install Helicopter Set Ht. Helicopte Crane Set Y. Tower Ere Plumb Tower Tower Plumb haul Insulators and Travellers Haul Traveller	er rection ub	each each each each each	2 2 2 2 2 2 2	39 27 40 41 7	2.00 0.00 3.50 2.00 1.50	\$ 1,2 \$ 21,8 \$ 1,4 \$ 9 \$ 6 \$ 1,4	99.72 \$ 82.09 \$ 13.00 \$ 36.64 \$	- \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$	10,374.66 3,652.0 1,909.9 2,888.13	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	5,187.33 1,826.00 954.96			
	Install Guy Strand Guy Install Helicopter Set H.L. Helicopte Crane Set Y. Tower Err Plumb Tower Tower Plumb haul Insulators and Travellers Hauf Traveller Hang Travellers Hang Traveller	er rection ub	each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	39 27 40 41 7 8	2.00 0.00 3.50 2.00 1.50	\$ 1,2 \$ 21,8 \$ 1,4 \$ 9 \$ 6 \$ 1,4	99.72 \$ 82.09 \$ 13.00 \$ 36.64 \$ 44.07 \$	- \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$	10,374.66 3,652.0 1,909.9	2 \$ 3 2 \$ 2 \$ 2 \$ 3 2 \$ 3 2 \$	5,187.33 1,826.00 954.96 1,444.07			



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountair					Crew Cost						Total Unit Cost	
nt				Units		Hours per							Manhours and	
ļ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D32 Assembly and Erection of Suspension Tower Typ	ne "A3 + 6" as per dwg.	Total struc	cture count:	3	EA		\$	167,300.60	\$	55,766.87	\$ -	\$ 55,766.87	\$
	S1-D32 Assembly and Erection of Suspension Tower Type "/							_	101,000	•	22,122121	•	*	•
	Total Tower Weight With Guys and Ext. (lb) = 18423	Total Tower Height(ft) =	167	Section Weight (lb) =	17159									
ſ	Site Preparation	Site Preparation	each	3	2	2.00	\$ 675.12 \$	1.350.24 \$	4.050.73	3 \$	1.350.24			
	Haul	Hauling	each	3		13.03	\$ 441.04 \$	5,748.79 \$	17,246.37	3 \$	5,748.79			
	Setup Blocks	Blocking Crew	each	3	3	2.00	\$ 281.84 \$	563.68 \$		3 \$	563.68			
	Assemble Tower	Lattice Assembly	each	3		29.41	\$ 1,183.92 \$	34,821.89 \$	104,465.67	3 \$	34,821.89			
	Install Guy Strand	Guy Install	each	3	39	2.00	\$ 1,258.65 \$	2,517.30 \$	7,551.90	3 \$	2,517.30			
İ	Helicopter Set	HL Helicopter	each	3	27	0.00	\$ 21,899.72 \$	- \$		3 \$	-			
	Crane Set	Y- Tower Erection	each	3	40	3.50	\$ 1,482.09 \$	5,187.33 \$	15,561.99	3 \$	5,187.33			
	Plumb Tower	Tower Plumb	each	3	41	2.00	\$ 913.00 \$	1,826.00 \$	5,478.01	3 \$	1,826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	3	7	1.50	\$ 636.64 \$	954.96 \$	2,864.87	3 \$	954.96			
	Hang Travellers	Hang Travellers	each	3	8	1.00	\$ 1,444.07 \$	1,444.07 \$	4,332.20	3 \$	1,444.07			
Ī	Tie -in	Tie -in	each	3	12	2.00	\$ 67 6.30 \$	1,352.60 \$	4,057.81	3 \$	1,352.60			
			each	3			\$ - \$	7		3 \$	-			
	Total Cost =	\$ 3.031	per pound	1			\$	55,766.87 \$	167,300.60	\$	55,766.87			
	S1-D33 Assembly and Erection of Suspension Tower Typ			cture count:	3	EA		\$	170,127.70	\$	56,709.23	\$ -	\$ 56,709.23	\$
	S1-D33 Assembly and Erection of Suspension Tower Type "A			3DD-0050										
	Total Tower Weight With Guys and Ext. (lb) = 18890	Total Tower Height(ft) =	172	Section Weight (lb) =	17575									
	Site Preparation	Site Preparation	each	3		2.00	\$ 675.1 2 \$			3 \$	1,350.24			
	Haul	Hauling	each	3	1	13.25	\$ 441.04 \$			3 \$	5,845.55			
	Setup Blocks	Blocking Crew	each	3		2.00	\$ 281.84 \$			3 \$	563.68			
	Assemble Tower	Lattice Assembly	each	3		30.13		35,667.49 \$	107,002.48	3 \$	35,667.49			
	Install Guy Strand	Guy Install	each	3	39	2.00	\$ 1,25 8.65 \$	2,517.30 \$	7,551.90	3 \$	2,517.30			
	Helicopter Set	HL Helicopter	each	3		0.00	\$ 21,899.72 \$	- \$	-	3 \$	-			
	Crane Set	Y- Tower Erection	each	3		3.50	\$ 1,482.09 \$,	3 \$	5,187.33			
	Plumb Tower	Tower Plumb	each	3	41	2.00	\$ 913.00 \$	1,826.00 \$	5,478.01	3 \$	1,826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	3	•	1.50	\$ 636.64 \$		_,	3 \$	954.96			
	Hang Travellers	Hang Travellers	each	3		1.00	\$ 1,444.07 \$,	3 \$	1,444.07			
	Tie -in	Tie -in	each	3		2.00	676.30 \$, ,	,	3 \$	1,352.60			
			each	3			\$ - \$	- \$		3 \$	-			
	Total Cost =	\$ 3.013	per pound	11			\$	56,709.23 \$	170,127.70	\$	56,709.23			
	O4 D04 Assembly and Engelies of Occasion Terror Tra	!! 40 . 0!!!	Total atmis		0	EA		•	114,565.26	\$	E7 000 C0	↑	¢ 57,000,00	.
	S1-D34 Assembly and Erection of Suspension Tower Typ S1-D34 Assembly and Erection of Suspension Tower Type "A				2	EA		\$	114,565.26	Ф	57,282.63	-	\$ 57,282.63	Ф
	Total Tower Weight With Guys and Ext. (lb) = 19194	Total Tower Height(ft) =	177 -4022	Section Weight (lb) =	17829									
	Site Preparation	Site Preparation	each	Section Weight (ib) =		2.00	\$ 675.12 \\$	1,350.24 \$	2,700.49	2 \$	1,350.24			
	Haul		each	2		13.39	\$ 675.12 \$ \$ 441.04 \$	5.904.43 \$		2 \$	5.904.43			
ļ	1 1-1-1	Hauling		2		2.00	\$ 281.84 \$	5,904.43 \$	1,127.37	2 \$	563.68			
	Setup Blocks	Blooking Cross	each	,		2.00	ZU 1.04 V	υυυ.υυ ψ	1,121.01					
	Setup Blocks Assemble Tower	Blocking Crew	each			30.56	\$ 1 183 92 \$	36 182 01 \$	72 364 03	2 \$	36 182 01			
	Assemble Tower	Lattice Assembly	each	/ 2	4	30.56	\$ 1,183.92 \$ \$ 1,258.65 \$	36,182.01 \$ 2,517.30 \$	72,364.03 5.034.60	2 \$	36,182.01 2 517 30			
	Assemble Tower Install Guy Strand	Lattice Assembly Guy Install	each each	2	4 39	2.00	\$ 1,258.65 \$	36,182.01 \$ 2,517.30 \$		2 \$	36,182.01 2,517.30			
	Assemble Tower Install Guy Strand Helicopter Set	Lattice Assembly Guy Install HL Helicopter	each each each	/ 2	4 39 27	2.00 0.00	\$ 1,258.65 \$ \$ 21,899.72 \$	2,517.30 \$	5,034.60	2 \$ 2 \$	2,517.30			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each	2 2 2 2 2 2	4 39 27 40	2.00 0.00 3.50	\$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	2,517.30 \$ - \$ 5,187.33 \$	5,034.60 - 10,374.66	2 \$ 2 \$ 2 \$	2,517.30 - 5,187.33			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each	2 2 2	39 27 40 41	2.00 0.00 3.50 2.00	\$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$	2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$	5,034.60 - 10,374.66 3,652.01	2 \$ 2 \$ 2 \$ 2 \$	2,517.30 - 5,187.33 1,826.00			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 39 27 40 41	2.00 0.00 3.50 2.00 1.50	\$ 1,258.65 \$ \$ 21,899.72 \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$	2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$	5,034.60 - 10,374.66 3,652.01 1,909.91	2 \$ 2 \$ 2 \$ 2 \$ 2 \$	2,517.30 - 5,187.33 1,826.00 954.96			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 39 27 40 41 7	2.00 0.00 3.50 2.00 1.50	\$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$ \$ 1,444.07 \$	2,517.30 \$	5,034.60 - 10,374.66 3,652.01 1,909.91 2,888.13	2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$ 2 \$	2,517.30 - 5,187.33 1,826.00 954.96 1,444.07			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 39 27 40 41 7 8	2.00 0.00 3.50 2.00 1.50	\$ 1,258.65 \$ \$ 21,899.72 \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$	2,517.30 \$	5,034.60 - 10,374.66 3,652.01 1,909.91 2,888.13 2,705.21	2 \$ 2 \$ 2 \$ 2 \$ 2 \$	2,517.30 - 5,187.33 1,826.00 954.96			



NALCOR 350 kV HVdc Line Construction From	ont 2 (Long Range Mount						Crew Cost						Total Unit Cost	
Description			Units	0 11	Hours per			11.11.0	Cultatal	Limita	11.11.0	Matariala	Manhours and	Tatal Matariala
Description			Total	Crew No.	unit	Hou	urly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
S1-D35 Assembly and Erection of Suspension Tow	war Tuna "A2 . 10 E" aa nar	Total struct	turo count:	3	EA			\$	175,617.35		\$ 58.539.12	¢	- \$ 58,539.12	¢
S1-D35 Assembly and Erection of Suspension Tower				3	LA			Ф	175,017.55		р 50,559.12	Ą	- \$ 50,559.12	Ą
	9800 Total Tower Height(ft) =	182	Section Weight (lb) =	18384										
Site Preparation	Site Preparation	each	3	2	2.00	\$	675.12	1,350.24 \$	4,050.73	3	\$ 1,350.24	•		
Haul	Hauling	each	3	1	13.68	\$	441.04		18,100.33		\$ 6,033.44	,		
Setup Blocks	Blocking Crew	each	3	3	2.00	\$	281.84	563.68 \$	1,691.05		\$ 563.68			
Assemble Tower	Lattice Assembly	each	3	4	31.51	\$	1,183.92	37,309.49 \$	111,928.46		\$ 37,309.49	,		
Install Guy Strand	Guy Install	each	3	39	2.00	\$	1,258.65	2,517.30 \$	7,551.90	3	\$ 2,517.30	•		
Helicopter Set	HL Helicopter	each	3	27	0.00	\$	21,899.72	- \$	-	3	\$ -			
Crane Set	Y- Tower Erection	each	3	40	3.50	\$	1,482.09	5,187.33 \$	15,561.99	3	\$ 5,187.33	,		
Plumb Tower	Tower Plumb	each	3	41	2.00	\$	913.00	1,826.00 \$	5,478.01	3				
haul Insulators and Travellers	Haul Travellers&Glass	each	3	7	1.50	\$	636.64	954.96 \$	2,864.87	3	\$ 954.96			
Hang Travellers	Hang Travellers	each	3	8	1.00	\$	1,444.07	1,444.07 \$	4,332.20	3				
Tie -in	Tie -in	each	3	12	2.00	\$	676.30		4,057.81		· · · · · · · · · · · · · · · · · · ·			
		each	3			\$	- ;		-	3	· _			
Total Co	ost = \$ 2.9	980 per pound	ļ					58,539.12 \$	175,617.35		\$ 58,539.12			
04.0004 11 15 4 40 4 5	T 40 40	T-1-1-1-1		0				•	447.045.00		£ 50.057.05	•	A 50.057.05	•
S1-D36 Assembly and Erection of Suspension Tow				2	EA			\$	117,915.89		\$ 58,957.95	\$	- \$ 58,957.95	\$
S1-D36 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 20	r Type "A3 + T2" as per dwg. 5 20036	187		18570										
Site Preparation	Site Preparation	each	Section Weight (lb) =	2	2.00	¢	675.12	1,350.24 \$	2,700.49	2	\$ 1,350.24	Ī		
Haul	· · · · · · · · · · · · · · · · · · ·	each	2	1	13.78	Φ Φ	441.04	6,076.45	12,152.89		\$ 6,076.45			
Setup Blocks	Hauling	each	2	3	2.00	Φ	281.84		1,127.37		\$ 563.68			
Assemble Tower	Blocking Crew Lattice Assembly	each	2	4	31.83	Φ Φ		37,685.31 \$	75,370.62		\$ 37,685.31	·		
Install Guy Strand	Guy Install	each	2	39	2.00	\$	1,258.65	2,517.30 \$	5,034.60		\$ 2,517.30			
Helicopter Set	HL Helicopter	each	2	27	0.00	\$		- \$			\$ -			
Crane Set	Y- Tower Erection	each	2	40	3.50	\$		5,187.33 \$	10,374.66		\$ 5,187.33	,		
Plumb Tower	Tower Plumb	each	2	41	2.00	\$	913.00	1,826.00 \$	3,652.01		\$ 1,826.00			
haul Insulators and Travellers	Haul Travellers&Glass	each	2	7	1.50	\$	636.64		1,909.91		\$ 954.96	•		
Hang Travellers	Hang Travellers	each	2	8	1.00	\$	1,444.07	1,444.07 \$	2,888.13	2	\$ 1,444.07	•		
Tie -in	Tie -in	each	2	12	2.00	\$	6 76.30	1,352.60 \$	2,705.21	2	\$ 1,352.60			
		each	2			\$		- \$	-	2	\$ -			
Total Co	ost = \$ 2.9	per pound	,		_			58,957.95 \$	117,915.89		\$ 58,957.95			
														_
S1-D37 Assembly and Erection of Suspension Tow				2	EA			\$	119,800.62		\$ 59,900.31	\$	- \$ 59,900.31	\$
S1-D37 Assembly and Erection of Suspension Tower														
	20503 Total Tower Height(ft) =		Section Weight (lb) =	18986								-		
Site Preparation	Site Preparation	each	2	2	2.00	\$	675.12	, , , , ,	2,700.49		\$ 1,350.24			
Haul	Hauling	each	2	1	14.00	\$	441.04	6,173.21 \$	12,346.42		\$ 6,173.21			
Ostore Dissilie	Blocking Crew	each	2	3	2.00	\$	281.84 1,183.92	563.68 \$	1,127.37		\$ 563.68			
						- N	1.183.92	38,530.92 \$	77,061.83		\$ 38,530.92	,		
Assemble Tower	Lattice Assembly	each	2	4	32.55	Φ	,		F 004 00	_	Φ Ω Ε 4 7 ΩΩ			
Assemble Tower Install Guy Strand	Lattice Assembly Guy Install	each	2 2	39	2.00	\$	1,258.65	2,517.30 \$	5,034.60		\$ 2,517.30			
Assemble Tower Install Guy Strand Helicopter Set	Lattice Assembly Guy Install HL Helicopter	each each		39 27	2.00 0.00	\$	1,258.65 21,899.72	2,517.30 \$	´ -	2	\$ -			
Assemble Tower Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each		39 27 40	2.00 0.00 3.50	\$ \$	1,258.65 S 21,899.72 S 1,482.09 S	2,517.30 \$ 5 - \$ 5 5,187.33 \$	10,374.66	2	\$ - \$ 5,187.33			
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HL Helicopter YTower Erection Tower Plumb	each each each each		39 27 40 41	2.00 0.00 3.50 2.00	\$ \$	1,258.65 S 21,899.72 S 1,482.09 S 913.00 S	2,517.30 \$ 5 - \$ 5,187.33 \$ 1,826.00 \$	10,374.66 3,652.01	2 2 2	\$ - \$ 5,187.33 \$ 1,826.00			
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each		39 27 40 41 7	2.00 0.00 3.50 2.00 1.50	\$ \$ \$	1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$	2,517.30 \$ 5 - \$ 5,187.33 \$ 6 1,826.00 \$ 954.96 \$	10,374.66 3,652.01 1,909.91	2 2 2 2	\$ 5,187.33 \$ 1,826.00 \$ 954.96			
Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each	2 2 2 2 2 2 2 2	39 27 40 41 7 8	2.00 0.00 3.50 2.00 1.50	\$ \$ \$	1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$	2,517.30 \$ 5 - \$ 5,187.33 \$ 6 1,826.00 \$ 954.96 \$ 1,444.07 \$	10,374.66 3,652.01 1,909.91 2,888.13	2 2 2 2 2	\$ \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07			
Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each		39 27 40 41 7 8	2.00 0.00 3.50 2.00 1.50	\$ \$ \$ \$ \$ \$	1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	2,517.30 \$ 5 - \$ 5,187.33 \$ 6 1,826.00 \$ 954.96 \$	10,374.66 3,652.01 1,909.91	2 2 2 2 2 2 2	\$ 5,187.33 \$ 1,826.00 \$ 954.96			



	ong Range Mounta					Crew Cost							al Unit Cost	
L			Units		Hours per								nhours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Materials	Total Materials
04 000 4 11 15 41 40 1 7 7	"AO 45"	T-1-1-1	4	4			•	CO 040 CO		¢ 00.040.00	*	•	00 040 00	•
S1-D38 Assembly and Erection of Suspension Tower Type				1	EA		\$	60,842.68		\$ 60,842.68	\$	- \$	60,842.68	Þ
S1-D38 Assembly and Erection of Suspension Tower Type "A: Total Tower Weight With Guys and Ext. (b) = 20970	Total Tower Height(ft) =		Section Weight (lb) =	19403										
Site Preparation		197 each	Section weight (ib) =	19403	2.00	\$ 675.12	\$ 1,350.24 \$	1,350.24	1	\$ 1,350.24				
Site Preparation Haul	Site Preparation	each	1	1	14.22	\$ 675.12 \$	\$ 1,350.24 \$ \$ 6,269.97 \$	6,269.97	1					
Setup Blocks	Hauling	each	1	3	2.00	\$ 281.84	\$ 6,269.97 \$ \$ 563.68 \$	563.68						
Assemble Tower	Blocking Crew		1	4	33.26	\$ 1,183.92	\$ 39.376.52 \$	39,376.52	1	,				
	Lattice Assembly	each	1	<u> </u>		,	,, ,							
Install Guy Strand	Guy Install	each	1	39	2.00	\$ 1,258.65	2,517.30 \$	2,517.30	1					
Helicopter Set Crane Set	HL Helicopter	each	1	27 40	0.00 3.50	\$ 21,899.72	5.187.33 \$	5,187.33		\$ 5,187.33				
Crane Set Plumb Tower	Y- Tower Erection	each	1	40	2.00	\$ 1,482.09	* -,			\$ 5,187.33 \$ 1,826.00				
haul Insulators and Travellers	Tower Plumb	each	1	7		\$ 913.00	1,826.00 \$	1,826.00						
	Haul Travellers&Glass	each	1	ı	1.50	\$ 636.64								
Hang Travellers	Hang Travellers	each	1	8	1.00	\$ 1,444.07		1,444.07		7 1,111.				
Tie -in	Tie -in	each	1	12	2.00	\$ 676.30	7	1,352.60	1	*				
		each	1			- 3	Ψ Ψ		1	\$ -				
Total Cost =	φ 2.94	42 per pound	1				\$ 60,842.68 \$	60,842.68		\$ 60,842.68				
S1-D39 Assembly and Frection of Suspension Tower Type	"Δ3 + 16 5" as per	Total struc	ture count:	3	ΕA		\$	184.263.18		\$ 61,421,06	\$	- \$	61.421.06	\$
		Total struc		3	EA		\$	184,263.18		\$ 61,421.06	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A	.3 + 16.5" as per dwg.	505573-4622-4	43DD-0050	-	EA		\$	184,263.18		\$ 61,421.06	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (Ib) = 21276		505573-4622-4		3 19659 2	EA	\$ 675.12				,	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation	.3 + 16.5" as per dwg. Total Tower Height(ft) =	505573-4622-4 202	43DD-0050	19659	_	\$ 675.12 \$ \$ 441.04 \$	\$ 1,350.24 \$	4,050.73	3	\$ 1,350.24	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A3 Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul	.3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling	505573-4622-4 202 each	43DD-0050	19659 2	2.00		\$ 1,350.24 \$ 6,329.36 \$	4,050.73 18,988.07	3 3	\$ 1,350.24 \$ 6,329.36	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A3 Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	505573-4622-4 202 each each each	43DD-0050	19659 2 1 3	2.00 14.35 2.00	\$ 441. 04 \$ 281. 84 \$	\$ 1,350.24 \$ \$ 6,329.36 \$ \$ 563.68 \$	4,050.73 18,988.07 1,691.05	3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A3 Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks Assemble Tower	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	505573-4622-4 202 each each each each	43DD-0050	19659 2 1 3 4	2.00 14.35 2.00 33.70	\$ 441.04 \$ 281.84 \$ 1,183.92 \$	\$ 1,350.24 \$ \$ 6,329.36 \$ \$ 563.68 \$ \$ 39,895.51 \$	4,050.73 18,988.07 1,691.05 119,686.54	3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A3 Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	505573-4622-4 202 each each each each each	43DD-0050	19659 2 1 3 4 39	2.00 14.35 2.00 33.70 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$	\$ 1,350.24 \$ \$ 6,329.36 \$ \$ 563.68 \$	4,050.73 18,988.07 1,691.05	3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A3 Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	505573-4622-4 202 each each each each each each each	43DD-0050	19659 2 1 3 4 39 27	2.00 14.35 2.00 33.70 2.00 0.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 1,350.24 \$ \$ 6,329.36 \$ \$ 563.68 \$ \$ 39,895.51 \$ \$ 2,517.30 \$ \$ \$ - \$	4,050.73 18,988.07 1,691.05 119,686.54 7,551.90	3 3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ -	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A: Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	505573-4622-4 202 each each each each each	43DD-0050	19659 2 1 3 4 39	2.00 14.35 2.00 33.70 2.00 0.00 3.50	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$	\$ 1,350.24 \$ \$ 6,329.36 \$ \$ 563.68 \$ \$ 39,895.51 \$ \$ 2,517.30 \$ \$ \$ 5,187.33 \$	4,050.73 18,988.07 1,691.05 119,686.54 7,551.90	3 3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A6" Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	505573-4622-4 202 each each each each each each each each	43DD-0050	19659 2 1 3 4 39 27 40	2.00 14.35 2.00 33.70 2.00 0.00 3.50 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$	\$ 1,350.24 \$ \$ 6,329.36 \$ \$ 563.68 \$ \$ 39,895.51 \$ \$ 2,517.30 \$ \$ \$ 5,187.33 \$ \$ 1,826.00 \$	4,050.73 18,988.07 1,691.05 119,686.54 7,551.90 - 15,561.99 5,478.01	3 3 3 3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A6" Total Tower Weight With Guys and Ext. (1b) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	505573-4622-4 202 each each each each each each each each	43DD-0050	19659 2 1 3 4 39 27 40	2.00 14.35 2.00 33.70 2.00 0.00 3.50 2.00 1.50	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ 5 1,826.00 \$ 954.96 \$	4,050.73 18,988.07 1,691.05 119,686.54 7,551.90 15,561.99 5,478.01 2,864.87	3 3 3 3 3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type "A6" Total Tower Weight With Guys and Ext. (lb) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Giass Hang Travellers	505573-4622-4 202 each each each each each each each each	43DD-0050	19659 2 1 3 4 39 27 40 41 7	2.00 14.35 2.00 33.70 2.00 0.00 3.50 2.00 1.50 1.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ 5 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$	4,050.73 18,988.07 1,691.05 119,686.54 7,551.90 15,561.99 5,478.01 2,864.87 4,332.20	3 3 3 3 3 3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07	\$	- \$	61,421.06	\$
S1-D39 Assembly and Erection of Suspension Tower Type S1-D39 Assembly and Erection of Suspension Tower Type "A: Total Tower Weight With Guys and Ext. (Ib) = 21276 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	3 + 16.5" as per dwg. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	505573-4622-4 202 each each each each each each each each	43DD-0050	19659 2 1 3 4 39 27 40	2.00 14.35 2.00 33.70 2.00 0.00 3.50 2.00 1.50	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ 5 1,826.00 \$ 954.96 \$ 1,444.07 \$	4,050.73 18,988.07 1,691.05 119,686.54 7,551.90 15,561.99 5,478.01 2,864.87	3 3 3 3 3 3 3 3 3	\$ 1,350.24 \$ 6,329.36 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$ 1,352.60	\$	- \$	61,421.06	\$





Units Unit Column Processing Column		NALCOR 350 kV HVdc Line Construction Front 2	! (Long Range Moun	<mark>ntain</mark> s)				Crew Cost						Total Unit Cost	
Assembly and Erection of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1049 S1-004 Assembly and Erection of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1050 Sample Production of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1050 Sample Production of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1050 Sample Production of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1050 Sample Production of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1050 Sample Production of Suspension Tower Type 'Ad 10' see due. Tower Setting Ratio 1050 Sample Production Sample Setting Ratio 1050 Sample Setting	Payment			Ún	nits		Hours per							Manhours and	
Page 10 Page	Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
Page 10 Page															
## STADIA Assembly and Entertant of Ringipristant Income Type: "An - 0" of part of the plant of	V-H18					g Ratio		Helicopter	100% Cra	ne					
The three waters and question (1 + 12 + 12 + 12 + 12 + 12 + 12 + 12 +						0	EA		\$	-	\$	66,617.12 \$	-	\$ 66,617.12	-
Separation Large coch 0 2 200 8 8752 3 1,00024 8 1 9 9 9 9 9 9 9 9 9															
Full Marie					ection Weight (lb) =			075.40	4 050 04 1 0		1 010				
Sept Blocks			·		0						0 \$				
Control Tower February Control					0										
Detail Guy Starret					0					$\overline{}$					
Personal Set					0										
Course Set			•		0			,							
Part Part					0										
Paing Travelletin					0					_					
Hamp Travellers					0					_					
Fig. Fig.					0										
Total Cost = \$ 2.947 per pound		-			0					_					
St-D41 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per Trail structure count: St-D41 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D41 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D41 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per body, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per day, 505573-4602-450B-0508 St-D42 Assembly and Erection of Suspension Tower Type 'A4 + 15' as per day, 505573-4602-450B-050B-050B-050B-050B-050B-050B-050B		110 -111	He -in		0	12	2.00								
St. D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as par double to the third of Suspension Tower Type "A4 + 1.5" as par double to the thir		Total Cost =	\$ 2		O _I			Ψ -							
S-1-Orl Assembly and Eraction of Suspension Tower Type "M + 1.5" as par dwg, 050573-4022-430D-0056 Total Tower May of the Properties of Suspension Tower Type "M + 2.5" as par dwg, 050573-4022-430D-0056 Set Preparation ***Page** each 0 2 2.00 8 675 12 8 13860.24 8 0 9 9 Set Up Blocks 5 5 641 44 8 0.5 771 8 1.15 7 Set Up Blocks 5 5 641 44 8 0.5 771 8 1.15 7 Set Up Blocks 5 5 641 44 8 0.5 771 8 1.15 7 Set Up Blocks 5 7 7 7 7 7 7 7 7 7		Total Gost	Ψ 2.	OTT per pourid					Ψ 00,011.12 Ψ		Ψ				
S-1-Orl Assembly and Eraction of Suspension Tower Type "M + 1.5" as par dwg, 050573-4022-430D-0056 Total Tower May of the Properties of Suspension Tower Type "M + 2.5" as par dwg, 050573-4022-430D-0056 Set Preparation ***Page** each 0 2 2.00 8 675 12 8 13860.24 8 0 9 9 Set Up Blocks 5 5 641 44 8 0.5 771 8 1.15 7 Set Up Blocks 5 5 641 44 8 0.5 771 8 1.15 7 Set Up Blocks 5 5 641 44 8 0.5 771 8 1.15 7 Set Up Blocks 5 7 7 7 7 7 7 7 7 7	V::D41	S1-D41 Assembly and Frection of Suspension Tower T	vne "Δ4 + 1.5" as ner	Total structur	re count:	0	EA		S	-	\$	68.143.64 \$	-	\$ 68.143.64	l s -
Side Preparation											_	55 ,110.01		v 00,110101	•
Sile Preparation See Prepa						21934									
Haul					0		2.00	\$ 675.12	\$ 1.350.24 \$	-	0 \$	-			
Setup Blocks Setup					0	1						-			
Install Guy Strand		Setup Blocks		each	0	3	2.00	\$ 281.84		-		-			
Helicopter Set		Assemble Tower	Lattice Assembly	each	0	4	37.60	\$ 1,183.92	\$ 44,512.78 \$	-	0 \$	-			
Crane Set		Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65		_	0 \$	-			
Plumb Tower		Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72	\$ - \$	-		_			
haul Insulators and Travellers		Crane Set	Y- Tower Erection	each	0	40	3.50	\$ 1,482.09	\$ 5,187.33 \$	-		-			
Hang Travellers Institute		Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00 \$	-		-			
Tile -in		haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	\$ 1,273.27 \$	-		-			
Total Cost = S Per per per Per Per per per per per per per per per per p		Hang Travellers	Hang Travellers	each	0	8	1.00			-	0 \$	-			
Total Cost = \$ 2.921 per pound		Tie -in	Tie -in	each	0	12	2.00	\$ 676.30	\$ 1,352.60 \$	-		-			
S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Total Tower Weight With Quya and Ext. (b) = 23313 Total Tower Height(t) = 116 Section Weight (b) = 22523 Site Preparation Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Site Preparation Suspension Tower Weight With Quya and Ext. (b) = 23313 Total Tower Height(t) = 116 Section Weight (b) = 22523 Site Preparation Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Site Preparation Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Site Preparation Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Site Preparation Suspension Tower Height With Quya and Ext. (b) = 23313 Total Tower Height (b) = 22523 Site Preparation Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Site Preparation Suspension Tower Height (b) = 23313 Total Tower Height (b) = 23313 Total Tower Height (b) = 23313 Total Tower Height (b) = 22523 Site Preparation Suspension Tower Height (b) = 23313 Total Tower Height (b) = 22523 Site Preparation Suspension Tower Height (b) = 23313 Total Tower Height (b) = 23313 Total Tower Height (b) = 23313 Total Tower Height (b) = 22523 Site Preparation Suspension Tower Height (b) = 22523 Site Preparation Suspension Tower Height (b) = 23131 Total Tower Height (b) = 23					0			\$ -	\$ - \$	-	0 \$	-			
S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Total Tower Height Wink Guys and Ext. (ib.) = 23313		Total Cost =	\$ 2.5	921 per pound					\$ 68,143.64 \$	-	\$	-			
S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056 Total Tower Height Wink Guys and Ext. (ib.) = 23313															
Total Tower Weight With Guys and Ext. (ib) = 23313 Total Tower Height(th) = 116 Section Weight (tb) = 22523						0	EA		\$	-	\$	69,474.92 \$	-	\$ 69,474.92	- \$
Site Preparation Site Preparation each 0 2 2.00 \$ 675.12 \$ 1,350.24 \$ - 0 \$ - Haul Haul Haul 0 1 15.86 \$ 441.04 \$ 6,994.40 \$ - 0 \$ - Setup Blocks Blooking Criw each 0 3 2.00 \$ 281.84 \$ 563.68 \$ - 0 \$ - Assemble Tower Luttle Assembly each 0 4 38.61 1,183.92 45,707.37 \$ - 0 \$ - Install Guy Strand Gov Install each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set H. Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Yr. Tower Election each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each						22522									
Haul							2.00	075.40	Φ 4050 04 I Φ						
Setup Blocks Blocking Criew each 0 3 2.00 \$ 281.84 \$ 563.68 \$ - 0 \$ - Assemble Tower Latice Assembly each 0 4 38.61 \$ 1,183.92 \$ 45,707.37 \$ - 0 \$ - Install Guy Strand 0 20 y install each 0 39 3.00 \$ 1,289.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set Helicopter each 0 27 0.00 \$ 21,899.72 \$ - 0 \$ - - 0 \$ - - \$ - 0 \$ - - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ <td></td> <td><u> </u></td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		<u> </u>	·												
Assemble Tower Lattice Assembly each 0 4 38.61 \$ 1,183.92 \$ 45,707.37 \$ - 0 \$ - Install Guy Strand Guy Install each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set HL Helicopter each 0 27 0.00 \$ 21,899.72 \$ - 0 \$ - Crane Set Y-Tower Frection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - Haul Insulators and Travellers Haul Travellers Sciaus each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - Tie -in To -in each <td></td> <td></td> <td></td> <td></td> <td>7 0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					7 0										
Install Guy Strand		•													
Helicopter Set HL Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y-Tower Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf Travellers Sclass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - Each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -					0			<u> </u>							
Crane Set Y- Tower Flection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf Travellers Scilass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -					0					-		-			
Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf Travellers Agiass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -					0					-		-			
haul Insulators and Travellers Hauf Travellers Agglass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - - each 0 \$ - \$ - 0 \$ -					0										
Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ -					0										
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each 0 \$ - \$ - 0 \$ -		<u> </u>			0			, , ,	, , ,						
			ile-in			12	2.00	· ·	· · · · · · · · · · · · · · · · · · ·						
10tal 300t		Total Cost =	\$ 2		O O										
		10tal 00st =	ψ 2.	oo rij per pedila j					Ψ 00,717.02 Ψ		Ψ				



NALCOR 350 kV HVdc Line Construction Fro	ont 2 (Long Range Mount		11			Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Sescription			Total	Clew No.	unit	Hoully Nate	Offit Cost	Oubtotal	Office	Offit Cost	Matchais	Matchais	Total Waterials
S1-D43 Assembly and Erection of Suspension Tow	er Type "A4 + 4.5" as per	Total struct	ture count:	0	EA		\$	-		\$ 71,314.78	\$ -	\$ 71,314.78	\$
S1-D43 Assembly and Erection of Suspension Tower		505573-4622-43	DD-0056					-				•	
9 , , ,	Total Tower Height(ft) =	121	Section Weight (lb) =	23336									
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12	1,350.24 \$		0				
Haul	Hauling	each	0	1	16.29	\$ 441.04	1,100.00	-	0				
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84	563.68 \$	-	0	·			
Assemble Tower	Lattice Assembly	each	0	4	40.00	\$ 1,183.92	47,358.31 \$		0	*			
nstall Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65	3,775.95 \$	-	0	•			
Helicopter Set Crane Set	HL Helicopter	each	0	27 40	0.00 3.50	\$ 21,899.72 S \$ 1,482.09 S	5,187.33	_	0	т.			
Crane Set Plumb Tower	Y- Tower Erection	each each	0	41	2.00		5,187.33 \$		0				
naul Insulators and Travellers	Tower Plumb	each	0	7	2.00	\$ 913.00 S \$ 636.64 S	, , , , , , , , , , , , , , , , , , , ,	-	0	*			
Hang Travellers	Haul Travellers&Glass Hang Travellers	each	0	8	1.00	\$ 1.444.07	1,273.27 \$ 1.444.07 \$	-	0	•			
Tie -in	Hang Travellers Tie -in	each	0	12	2.00	\$ 676.30			0	_			
110 -111	ile -in	each	0	12	2.00	\$ - 9		-	0	'			
Total Cos	st = \$ 2.8	882 per pound				9	71,314.78 \$	-	Ü	\$ -			
	J. 4 2.0	02 po. pouu	I			_	7 1,011110			<u> </u>			
S1-D44 Assembly and Erection of Suspension Tow	ver Type "A4 + 6" as per dw	g. Total struct	ture count:	25	EA		\$	1,789,351.34		\$ 71,574.05	\$ -	\$ 71,574.05	\$
S1-D44 Assembly and Erection of Suspension Tower										,	•	,	
Total Tower Weight With Guys and Ext. (lb) = 24	Total Tower Height(ft) =	126	Section Weight (lb) =	23451									
Site Preparation	Site Preparation	each	25	2	2.00	\$ 675.12	1,350.24 \$	33,756.12	25	\$ 1,350.24			
Haul	Hauling	each	25	1	16.35	\$ 441.04	7,209.94 \$	180,248.43	25	\$ 7,209.94			
Setup Blocks	Blocking Crew	each	25	3	2.00	\$ 281.84		14,092.11	25				
Assemble Tower	Lattice Assembly	each	25	4	40.20	\$ 1,183.92	47,590.96 \$	1,189,773.99					
nstall Guy Strand	Guy Install	each	25	39	3.00	\$ 1,2 58.65	3,775.95 \$	94,398.73					
Helicopter Set	HL Helicopter	each	25	27	0.00	7	- \$	-	25				
Crane Set	Y- Tower Erection	each	25	40	3.50	\$ 1,482.09		129,683.24					
Plumb Tower	Tower Plumb	each	25	41	2.00	\$ 913.00	1,826.00 \$	45,650.08	25				
naul Insulators and Travellers	Haul Travellers&Glass	each	25	7	2.00	\$ 636.64 \$		31,831.87					
Hang Travellers	Hang Travellers	each	25	8	1.00	\$ 1,444.07		36,101.67					
Tie -in	Tie -in	each	25	12	2.00	\$ 676.30 \$		33,815.09					
Total Cos	-t -	each	25			- 3	γ	1 700 251 24	25				
Total Cos	st = \$ 2.8	379 per pound	I				71,574.05 \$	1,789,351.34		\$ 71,574.05			
S1-D45 Assembly and Erection of Suspension Tow	vor Type "A4 + 7.5" as per	Total struct	ture count:	12	EA		¢	881,684.91		\$ 73,473.74	¢ _	\$ 73,473.74	¢
S1-D45 Assembly and Erection of Suspension Tower				12	LA		Ψ	001,004.51		ψ 10,410.14	Ψ	Ψ 10,410.14	Ψ
	5232 Total Tower Height(ft) =		Section Weight (lb) =	24291									
Site Preparation	Site Preparation	each	12	2	2.00	\$ 675.12	1,350.24 \$	16,202.94	12	\$ 1,350.24			
Haul	Hauling	each	12	1	16.79	\$ 441.04	7,405.00 \$	88,859.95	12				
Setup Blocks	Blocking Crew	each	12	3	2.00	\$ 281.84	563.68 \$	6,764.21	12	\$ 563.68			
Assemble Tower	Lattice Assembly	each	/12	4	41.64	\$ 1,183.92	49,295.59 \$	591,547.08					
nstall Guy Strand	Guy Install	each	12	39	3.00	\$ 1,258.65	3,775.95 \$	45,311.39	12	\$ 3,775.95			
Helicopter Set	HL Helicopter	each	12	27	0.00	\$ 21,899.72	- \$	-	12	1			
Crane Set	Y- Tower Erection	each	12	40	3.50	\$ 1,482.09	5,187.33 \$	62,247.95		\$ 5,187.33			
Plumb Tower	Tower Plumb	each	12	41	2.00	\$ 913.00	1,826.00 \$	21,912.04					
	Haul Travellers&Glass	each	12	7	2.00	\$ 636.64	1,273.27 \$	15,279.30					
naul Insulators and Travellers	naui ITavelleis@Glass			0	1.00	\$ 1.444.07	1.444.07 \$	17,328.80	12	\$ 1.444.07			
Hang Travellers	Hang Travellers	each	12	8		, ,	, .	,	1				
		each	12	12	2.00	\$ 676.30	1,352.60 \$	16,231.24		\$ 1,352.60			
Hang Travellers	Hang Travellers Tie -in		12 12	12		\$ 676.30	, .	,	12	\$ 1,352.60			



NALCOR 350 kV HVdc Line Construction Fr	ont 2 (Long Range Mounta		Units		Hours no	Crew Cost						Total Unit Cost Manhours and	
Description			Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Mannours and Materials	Total Materials
C4 D46 Accombly and Exaction of Councy - 1 T	war Tuno "A4 . O" aa mar diisa	Total atmi-	turo count:	21	EA		\$	1,570,905.44		\$ 74,805.02	•	\$ 74,805.02	e.
S1-D46 Assembly and Erection of Suspension To S1-D46 Assembly and Erection of Suspension Tower				21	_ EA		Ф	1,570,905.44		Φ 74,003.02	-	\$ 74,805.02	Þ
	25871 Total Tower Height(ft) =	136	Section Weight (lb) =	24879									
Site Preparation	Site Preparation	each	21	2	2.00	\$ 675.12 \$	1.350.24 \$	28.355.14	21	\$ 1.350.24			
Haul	Hauling	each	21	1	17.10	\$ 441.04 \$	7,541.69 \$	158,375.50	21	, , , , , ,			
Setup Blocks	Blocking Crew	each	21	3	2.00	\$ 281.84 \$	563.68 \$	11,837.38	21	<u> </u>			
Assemble Tower	Lattice Assembly	each	21	4	42.65	\$ 1,183.92 \$	50,490.17 \$	1,060,293.65	21	·			
Install Guy Strand	Guy Install	each	21	39	3.00	\$ 1,258.65 \$	3,775.95 \$	79,294.94	21				
Helicopter Set	HL Helicopter	each	21	27	0.00	\$ 21,899.72 \$	- \$	-	21	\$ -			
Crane Set	Y- Tower Erection	each	21	40	3.50	\$ 1,482.09 \$	5,187.33 \$	108,933.92	21	\$ 5,187.33			
Plumb Tower	Tower Plumb	each	21	41	2.00	\$ 913.00 \$	1,826.00 \$	38,346.06	21	\$ 1,826.00			
haul Insulators and Travellers	Haul Travellers&Glass	each	21	7	2.00	\$ 636.64 \$	1,273.27 \$	26,738.77	21				
Hang Travellers	Hang Travellers	each	21	8	1.00	\$ 1,444.07 \$	1,444.07 \$	30,325.41	21				
Tie -in	Tie -in	each	21	12	2.00	\$ 676.30 \$		28,404.67	21				
		each	21			\$ - \$	7	-	21				
Total C	ost = \$ 2.84	3 per pound				\$	74,805.02 \$	1,570,905.44		\$ 74,805.02			
S1-D47 Assembly and Erection of Suspension To	wor Type "A4 + 10 5" as per	Total struc	ture count:	18	EA		\$	1,379,607.79		\$ 76,644.88		\$ 76,644.88	¢
S1-D47 Assembly and Erection of Suspension Tower				10			-	1,373,007.73		70,044.00	-	Ψ 10,044.00	Ψ
	26735 Total Tower Height(ft) =	141	Section Weight (lb) =	25693									
Site Preparation	Site Preparation	each	18	2	2.00	\$ 675.12 \$	1,350.24 \$	24,304.41	18	\$ 1,350.24			
Haul	Hauling	each	18	1	17.53	\$ 441.04 \$		139,150.90	18				
Setup Blocks	Blocking Crew	each	18	3	2.00	\$ 281.84 \$		10,146.32	18	· · · · · · · · · · · · · · · · · · ·			
Assemble Tower	Lattice Assembly	each	18	4	44.04	\$ 1.183.92 \$	52,141.12 \$	938,540.07	18				
Install Guy Strand	Guy Install	each	18	39	3.00	\$ 1,258.65 \$	3,775.95 \$	67,967.09	18				
Helicopter Set	HL Helicopter	each	18	27	0.00	\$ 21,899.72 \$	- \$	-	18	\$ -			
Crane Set	Y- Tower Erection	each	18	40	3.50	\$ 1,482.09 \$	5,187.33 \$	93,371.93	18	\$ 5,187.33			
Plumb Tower	Tower Plumb	each	18	41	2.00	\$ 913.00 \$	1,826.00 \$	32,868.06	18	\$ 1,826.00			
haul Insulators and Travellers	Haul Travellers&Glass	each	18	7	2.00	\$ 636.64 \$	1,273.27 \$	22,918.95	18	\$ 1,273.27			
Hang Travellers	Hang Travellers	each	18	8	1.00	\$ 1,444.07 \$	1,444.07 \$	25,993.21	18	\$ 1,444.07			
Tie -in	Tie -in	each	18	12	2.00	6 76.30 \$	1,352.60 \$	24,346.86	18	\$ 1,352.60			
		each	18			\$ - \$	Ψ	-	18	·			
Total C	ost = \$ 2.82	25 per pound				\$	76,644.88 \$	1,379,607.79		\$ 76,644.88			
S1-D48 Assembly and Erection of Suspension To	wer Type "A4 + 12" as per dw	a. Total struc	ture count:	10	EA		\$	768,493.06		\$ 76,849.31	-	\$ 76,849.31	\$
S1-D48 Assembly and Erection of Suspension Tower								•				,	
Total Tower Weight With Guys and Ext. (lb) =	26876 Total Tower Height(ft) =	146	Section Weight (lb) =	25783									
Site Preparation	Site Preparation	each	10	2		\$ 675.12 \$	1,350.24 \$	13,502.45	10	\$ 1,350.24			
Haul	Hauling	each	10	1	17.58	\$ 441.04 \$	7,751.60 \$	77,515.96	10				
Setup Blocks	Blocking Crew	each	10	3	2.00	\$ 281.84 \$	563.68 \$	5,636.85	10				
Assemble Tower	Lattice Assembly	each	/10	4	44.20	\$ 1,183.92 \$	52,324.55 \$	523,245.53	10	· · · · · · · · · · · · · · · · · · ·			
Install Guy Strand	Guy Install	each	10	39	3.00	\$ 1,258.65 \$	3,775.95 \$	37,759.49	10	· · · · · · · · · · · · · · · · · · ·			
Helicopter Set	HL Helicopter	each	10	27	0.00	\$ 21,899.72 \$	- \$	_	10	*			
Crane Set	Y- Tower Erection	each	10	40	3.50	\$ 1,482.09 \$	5,187.33 \$	51,873.29	10	7 - 7,			
Plumb Tower	Tower Plumb	each	10	41	2.00	\$ 913.00 \$	1,826.00 \$	18,260.03	10	<u> </u>			
haul Insulators and Travellers	Haul Travellers&Glass	each	10	7	2.00	\$ 636.64 \$	1,273.27 \$	12,732.75	10	, ,			
Hang Travellers	Hang Travellers	each	10	8	1.00	\$ 1,444.07 \$	1,444.07 \$	14,440.67	10	<u> </u>			
Tie -in	Tie -in	each	10	12	2.00	\$ 676.30 \$	1,352.60 \$	13,526.04	10	, , , , , , ,			
		each	10			\$ - \$	- \$	_	10	S -			
Total C	ost = \$ 2.82	23 per pound				Ψ	76,849.31 \$	768,493.06		\$ 76,849.31			



ſ	NALCOR 350 kV HVdc Line Construction Front 2 (Lor	ng Range Mountair					Crew Cost						Total Unit Cost	
nt				Units		Hours per							Manhours and	
L	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D49 Assembly and Erection of Suspension Tower Type ".	A4 + 13.5" as ner	Total struc	ture count:	12	EA			944,987.94	\$	78,748.99	s -	\$ 78,748.99	\$
	S1-D49 Assembly and Erection of Suspension Tower Type "A4 -								011,001.01	•	10,140,00	*	Ψ 10,140,00	•
	Total Tower Weight With Guys and Ext. (lb) = 27766	Total Tower Height(ft) =	151	Section Weight (lb) =	26623									
Г	Site Preparation	Site Preparation	each	12		2.00	\$ 675.12 \$	1.350.24	16,202,94	12 \$	1.350.24			
-	Haul	Site Preparation Hauling	each	12		18.02	\$ 441.04 \$	7,946.65	95,359.86	12 \$	7,946.65			
-	Setup Blocks	Blocking Crew	each	12		2.00	\$ 281.84 \$	563.68		12 \$	563.68			
	Assemble Tower	Lattice Assembly	each	12		45.64	\$ 1,183.92 \$	54,029.18		12 \$	54,029.18			
	Install Guy Strand	Guy Install	each	12		3.00	\$ 1,258.65 \$	3,775.95	45,311.39	12 \$	3,775.95			
-	Helicopter Set	•	each	12		0.00	\$ 21,899.72 \$	3,773.93		12 \$	3,773.93			
	Crane Set	HL Helicopter Y- Tower Erection	each	12		3.50	\$ 1,482.09 \$	5,187.33		12 \$	5,187.33			
-	Plumb Tower	Y- Tower Erection Tower Plumb	each	12		2.00	\$ 913.00 \$	1,826.00		12 \$	1,826.00			
-	haul Insulators and Travellers	Haul Travellers&Glass	each	12		2.00	\$ 636.64 \$	1,273.27		12 \$	1,273.27			
-	Hang Travellers		each	12		1.00	\$ 1,444.07 \$	1,444.07		12 \$	1,444.07			
-	Tie -in	Hang Travellers	each	12		2.00	\$ 1,444.07 \$ 676.30 \$	1,352.60		12 \$	1.352.60			
-		Tie -in	each	12		2.00	\$ 676.30 \$			12 \$	1,352.00			
L	Total Cost =	\$ 2.805	per pound				- •	78,748.99						
	Total Cost =	ψ ∠.805	I her hourid	1			Ф	10,140.99	944,907.94	\$	78,748.99			
	C1 DEC Accombly and Exaction of Communical Tours Tours	A4 . 45" a=	Total atmi-	turo count	4	EA			322,594.74	\$	80,648.68	¢	\$ 80,648.68	ı e
	S1-D50 Assembly and Erection of Suspension Tower Type "				4	EA			322,394.74	Ф	00,040.00	-	Φ 00,040.00	Þ
	S1-D50 Assembly and Erection of Suspension Tower Type "A4 - Total Tower Weight With Guys and Ext. (Ib) = 28657				07460									
Г	<u> </u>	Total Tower Height(ft) =	156	Section Weight (lb) =	27463	0.00	0.75.40	4.050.04 (F 400.00	1 4 6	4.050.04			
-	Site Preparation	Site Preparation	each	4	_	2.00	\$ 675.12 \$			4 \$	1,350.24			
	Haul	Hauling	each	4	1	18.46	\$ 441.04 \$			4 \$	8,141.71			
-	Setup Blocks	Blocking Crew	each	4	3	2.00	\$ 281.84 \$			4 \$	563.68			
-	Assemble Tower	Lattice Assembly	each	4	4	47.08		55,733.81	222,935.26	4 \$	55,733.81			
	Install Guy Strand	Guy Install	each	4	39	3.00	\$ 1,258.65 \$	-,		4 \$	3,775.95			
	Helicopter Set	HL Helicopter	each	4	27	0.00	\$ 21,899.72 \$	- 5	- 00.740.00	4 \$	-			
	Crane Set	Y- Tower Erection	each	4	40	3.50	\$ 1,482.09 \$		20,7 10.02	4 \$	5,187.33			
-	Plumb Tower	Tower Plumb	each	4	41	2.00	\$ 913.00 \$	1,826.00	7,304.01	4 \$	1,826.00			
	haul Insulators and Travellers	Haul Travellers&Glass	each	4	7	2.00	\$ 636.64 \$.,		4 \$	1,273.27			
-	Hang Travellers	Hang Travellers	each	4	8	1.00	\$ 1,444.07 \$			4 \$	1,444.07			
-	Tie -in	Tie -in	each	4	12	2.00	6 76.30 \$,	,	4 \$	1,352.60			
L	T. ()		each	4			\$ - \$			4 \$	-			
	Total Cost =	\$ 2.788	per pound				\$	80,648.68	322,594.74	\$	80,648.68			
											04.070.00		A 04.070.00	
	S1-D51 Assembly and Erection of Suspension Tower Type "			ture count:	4	EA			327,919.85	\$	81,979.96	-	\$ 81,979.96	\$
	S1-D51 Assembly and Erection of Suspension Tower Type "A4 -				00050									
r	Total Tower Weight With Guys and Ext. (lb) = 29296	Total Tower Height(ft) =	161	Section Weight (lb) =	28052	0.00	C7E 40	4.050.04.17	F 400 00	414	4.050.04			
-	Site Preparation	Site Preparation	each	4	2	00	\$ 675.12 \$	1,350.24	· /	4 \$	1,350.24			
	Haul	Hauling	each	4	1	18.77	\$ 441.04 \$	8,278.41		4 \$	8,278.41			
	Setup Blocks	Blocking Crew	each	4	3	2.00	\$ 281.84 \$	563.68	2,254.74	4 \$	563.68			
	Assemble Tower	Lattice Assembly	each	4	4	48.08	\$ 1,183.92 \$	56,928.40	227,713.59	4 \$	56,928.40			
-	Install Guy Strand	Guy Install	each	4	39	3.00	\$ 1,258.65 \$	3,775.95	15,103.80	4 \$	3,775.95			
-	Helicopter Set	HL Helicopter	each	4	27	0.00	\$ 21,899.72 \$	- 8	<u> </u>	4 \$	-			
	Crane Set	Y- Tower Erection	each	4	40	3.50	\$ 1,482.09 \$	5,187.33	20,749.32	4 \$	5,187.33			
-	Plumb Tower	Tower Plumb	each	4	41	2.00	\$ 913.00 \$	1,826.00		4 \$	1,826.00			
Į	haul Insulators and Travellers	Haul Travellers&Glass	each	4	7	2.00	\$ 636.64 \$	1,273.27	,	4 \$	1,273.27			
			each	4	8	1.00	\$ 1,444.07 \$	1,444.07		4 \$	1,444.07			
	Hang Travellers	Hang Travellers												
	Hang Travellers Tie -in	Hang Travellers Tie -in	each	4		2.00	\$ 676.30 \$	1,352.60	-, -	4 \$	1,352.60			
	<u> </u>	Tie -in		4		2.00	\$ 676.30 \$ \$ - \$,	-	4 \$	1,352.60			



	NALCOR 350 kV HVdc Line Constructio	n Front 2 (Long Range Mountai	in <mark>s)</mark>				Crew Co	st						Total Unit Cost	
ent				Units		Hours per								Manhours and	
J	Description			Total	Crew No.	unit	Hourly Rate		Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
_	04.050.4 11 15 11 40 1	T T "44 40" I	T-1-1-1-1						•	00 000 05		00.000.05		* 00.000.05	
	S1-D52 Assembly and Erection of Suspension				1	EA			\$	83,306.25		83,306.25 \$	-	\$ 83,306.25	\$
	S1-D52 Assembly and Erection of Suspension T	10wer Type "A4 + 18" as per dwg. 509 29933 Total Tower Height(ft) =			20620										
F	Total Tower Weight With Guys and Ext. (lb) =	3 ()		Section Weight (lb) =	28638	2.00		E 40 ¢	4 250 24 6	4 250 24	1 41	4 250 24			
,	Site Preparation Haul	Site Preparation	each each	1	1	19.08		5.12 \$ 1.04 \$	1,350.24 \$ 8,414.59 \$	1,350.24 8,414.59	1 1 5				
,	Setup Blocks	Hauling	each	1	3	2.00		1.84 \$	563.68 \$	563.68	1 3				
-	Assemble Tower	Blocking Crew	each	1	4	49.09		3.92 \$	58,118.51 \$	58,118.51	1 1				
	Install Guy Strand	Lattice Assembly	each	1	39	3.00	\$ 1,10		3,775.95 \$						
-	Helicopter Set	Guy Install	each	1	27	0.00	\$ 21,89		- \$	3,773.93	1 3				
	Crane Set	HL Helicopter Y- Tower Erection	each	1	40	3.50	\$ 1,48		5,187.33 \$						
	Plumb Tower	Y- Tower Erection Tower Plumb	each	1	41	2.00		3.00 \$	1,826.00 \$						
-	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each	1	7	2.00		6.64 \$	1,273.27 \$		1 5				
L	Hang Travellers		each	1	8	1.00		4.07 \$	1,444.07 \$		1 3				
-	Tie -in	Hang Travellers Tie -in	each	1	12	2.00		6.30 \$	1,352.60 \$						
ŀ	116 -111	lie -in	each	1	12	2.00	\$	- \$	- \$		1 9				
į	To	otal Cost = \$ 2.767	7 per pound	'			Ψ	φ	83,306.25 \$		1 3				
	100	ιαι ούσι – ψ 2.707	I per pourid	Ţ				Ψ	00,000.20 ψ	00,000.20	,	00,000.20			
3	S1-D53 Assembly and Erection of Suspension	n Tower Type "A4 + 10 5" as per	Total struc	ture count:	6	EA			\$	504,145.48		84,024.25 \$	-	\$ 84,024.25	¢
	S1-D53 Assembly and Erection of Suspension T								Ψ	304,143.40		υ υτ,υΣτ.Συ ψ		Ψ 04,024.23	Ψ
	Total Tower Weight With Guys and Ext. (lb) =	30300 Total Tower Height(ft) =		Section Weight (lb) =	28956										
ŗ	Site Preparation	Site Preparation	each	6	2	2.00	\$ 6	5.12 \$	1,350.24 \$	8,101.47	6 9	1,350.24			
-	Haul	Hauling	each	6	1	19.25		1.04 \$	8,488.31 \$	50,929.88					
	Setup Blocks	Blocking Crew	each	6	3	2.00		1.84 \$	563.68 \$		6 9				
-	Assemble Tower	Lattice Assembly	each	6	4	49.63		3.92 \$	58,762.78 \$	352,576.66	6 9				
	Install Guy Strand	Guy Install	each	6	39	3.00	\$ 1,25	-	3,775.95 \$	22,655.70					
	Helicopter Set	HL Helicopter	each	6	27	0.00	\$ 21,89		- \$		6 9				
	Crane Set	Y- Tower Erection	each	6	40	3.50		2.09 \$	5,187.33 \$		6 9				
	Plumb Tower	Tower Plumb	each	6	41	2.00		3.00 \$	1,826.00 \$		6 9				
-	haul Insulators and Travellers		each	6	7	2.00		6.64 \$	1,273.27 \$						
-															
	THANG Travellers	Haul Travellers&Glass		6	8		\$ 1.44	4 07 \$	1 444 07 \$	8 664 40	6 9	S 1 444 07 I			
	Hang Travellers Tie -in	Hang Travellers	each	6	8	1.00		4.07 \$	1,444.07 \$ 1,352.60 \$	8,664.40 8 115 62					
	Tie -in		each each	6	8 12			6.30 \$	1,352.60 \$	8,115.62	6 5	1,352.60			
	Tie -in	Hang Travellers Tie -in	each each each	6		1.00			1,352.60 \$	8,115.62	6 5	1,352.60 5 -			
	Tie -in	Hang Travellers Tie -in	each each	6		1.00		6.30 \$	1,352.60 \$	8,115.62	6 5	1,352.60			
-	Tie -in	Hang Travellers Tie -in otal Cost = \$ 2.761	each each each	6	12	1.00	\$ 6	6.30 \$	1,352.60 \$ - \$ 84,024.25 \$	8,115.62 - 504,145.48	6 5	1,352.60 5 -			
	Tie -in Tot Assembly and Erection of Suspensio	Hang Travellers Tie-in otal Cost = \$ 2.761 on Tower Type "B1"	each each each 1 per pound	6 6 Tower Settir	12 ng Ratio	1.00 2.00		6.30 \$	1,352.60 \$ - \$ 84,024.25 \$	8,115.62 - 504,145.48 rane	6 5	5 1,352.60 5 - 6 84,024.25		\$ 86 290 12	ı e
4	Tie -in Tot Assembly and Erection of Suspensio S1-D54 Assembly and Erection of Suspension	hang Travellers Tile -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg.	each each each 1 per pound	6 6 7 6 Tower Settir ture count:	12	1.00	\$ 6	6.30 \$	1,352.60 \$ - \$ 84,024.25 \$	8,115.62 - 504,145.48 rane	6 5	5 1,352.60 5 - 6 84,024.25		\$ 86,290.12	\$
4	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T	hang Travellers Tile -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055	each each each 1 per pound Total struc	Tower Settir ture count: D-0002	12 ng Ratio	1.00 2.00	\$ 6	6.30 \$	1,352.60 \$ - \$ 84,024.25 \$	8,115.62 - 504,145.48 rane	6 5	5 1,352.60 5 - 6 84,024.25	-	\$ 86,290.12	\$
 	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) =	hang Travellers Tie-in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) =	each each each 1 per pound Total struc 573-4622-43D 122	Tower Settir ture count: D-0002 Section Weight (lb) =	12 ng Ratio 0 30111	1.00 2.00	\$ 65	6.30 \$ - \$ \$	1,352.60 \$ - \$ 84,024.25 \$ 100% C	8,115.62 - 504,145.48 rane	6 5	5 1,352.60 5 - 6 84,024.25 8 86,290.12 \$	-	\$ 86,290.12	\$
	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation	Hang Travellers Tie-in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation	each each each 1 per pound Total struc 73-4622-43D 122 each	Tower Settir ture count: D-0002 Section Weight (lb) =	12 g Ratio 0 30111	0.00 EA	\$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60	6.30 \$ - \$ \$ 5.12 \$	1,352.60 \$ - \$ 84,024.25 \$ 100% Ci \$	8,115.62 - 504,145.48 rane -	6 5	5 1,352.60 5 - 6 84,024.25 8 86,290.12 \$	-	\$ 86,290.12	\$
[Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul	Hang Travellers Tile -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling	each each each 1 per pound Total struc 573-4622-43D 122 each each	Tower Settir ture count: D-0002 Section Weight (lb) =	12 19 Ratio 0 30111 2 1	0.00 EA	\$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60 \$ 60	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$	1,352.60 \$ - \$ 84,024.25 \$ 100% Ci \$ 1,350.24 \$ 6,992.41 \$	8,115.62 - 504,145.48 rane - -	6 5	5 1,352.60 6 84,024.25 8 86,290.12 \$	-	\$ 86,290.12	\$
[Tie -in Tol Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	Hang Travellers Tile -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each 1 per pound Total struc 573-4622-43D 122 each each each	Tower Settir ture count: D-0002 Section Weight (lb) =	12 19 Ratio 0 30111 2 1 3	0.00 EA	\$ 66 \$ 66 \$ 66 \$ 44 \$ 28	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$	1,352.60 \$ - \$ 84,024.25 \$ 100% Ci \$ 1,350.24 \$ 6,992.41 \$ 563.68 \$	8,115.62 - 504,145.48 rane - - -	0 5	8 1,352.60 8 1,352.60 8 84,024.25 8 86,290.12 \$		\$ 86,290.12	\$
[Tie -in Tol Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower	Hang Travellers Tile -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each 1 per pound Total struc 573-4622-43D 122 each each each each	Tower Settir ture count: D-0002 Section Weight (lb) = 0 0	12 19 Ratio 0 30111 2 1 3 4	0.00 EA 2.00 15.85 2.00 51.61	\$ 66 \$ 44 \$ 28 \$ 1,18	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$	1,352.60 \$ \$ 84,024.25 \$ 100% Ci \$ 1,350.24 \$ 6,992.41 \$ 563.68 \$ 61,107.20 \$	8,115.62 - 504,145.48 rane - - - - -	0 5 0 5 0 5	5 1,352.60 6 84,024.25 6 86,290.12 \$		\$ 86,290.12	\$
 	Tie -in Tota Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Hang Travellers Tie -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each 1 per pound Total struc 673-4622-43D 122 each each each each each	Tower Settir ture count: D-0002 Section Weight (lb) = 0 0 0 0 0	12 19 Ratio 0 30111 2 1 3 4 39	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00	\$ 66 \$ 44 \$ 20 \$ 1,18 \$ 1,28	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 8.65 \$	1,352.60 \$ - \$ 84,024.25 \$ 100% Ci \$ 1,350.24 \$ 6,992.41 \$ 563.68 \$	8,115.62 - 504,145.48 rane - - -	0 3 0 3 0 3	5 1,352.60 6 84,024.25 6 86,290.12 \$	-	\$ 86,290.12	\$
 	Tie -in Tot Assembly and Erection of Suspensio S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Hang Travellers Tie -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each	6 6 6 6 6 6 6 6 6 6	12 19 Ratio 0 30111 2 1 3 4 39 27	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00	\$ 66 \$ 44 \$ 20 \$ 1,18 \$ 21,88	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 8.65 \$ 9.72 \$	1,352.60 \$ \$ 84,024.25 \$ 100% Ci \$ 1,350.24 \$ 6,992.41 \$ 563.68 \$ 61,107.20 \$ 3,775.95 \$ \$	8,115.62 - 504,145.48 rane - - - - - -	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	5 1,352.60 6 84,024.25 6 86,290.12 \$ 6	-	\$ 86,290.12	\$
1	Tie -in Tota Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Hang Travellers Tie -in otal Cost = \$ 2.761 on Tower Type "B1" on Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each each each	Tower Settir ture count: D-0002 Section Weight (lb) = 0 0 0 0 0	12 19 Ratio 0 30111 2 1 3 4 39 27 40	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00 4.00	\$ 65 \$ 0 Helicopter \$ 65 \$ 22 \$ 1,11 \$ 1,21 \$ 21,83 \$ 1,44	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 8.65 \$ 9.72 \$ 2.09 \$	1,352.60 \$ \$ 84,024.25 \$ 100% Ci \$ 1,350.24 \$ 6,992.41 \$ 563.68 \$ 61,107.20 \$ 3,775.95 \$ \$ 5,928.38 \$	8,115.62 504,145.48 rane - - - - - - - - - - - - -	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	86,290.12 \$ 86,290.12 \$ 6	-	\$ 86,290.12	\$
4 [[Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hang Travellers Tie -in Datal Cost = \$ 2.761 Don Tower Type "B1" Don Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each each each	6 6 6 6 6 6 6 6 6 6	12 19 Ratio 0 30111 2 1 3 4 39 27 40 41	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00	\$ 66 \$ 0 Helicopter \$ 67 \$ 22 \$ 1,11 \$ 1,21 \$ 21,83 \$ 1,44 \$ 9	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 8.65 \$ 9.72 \$ 2.09 \$ 3.00 \$	1,352.60 \$ \$ 84,024.25 \$ 100% C \$ 1,350.24 \$ 6,992.41 \$ 563.68 \$ 61,107.20 \$ 3,775.95 \$ \$ 5,928.38 \$ 1,826.00 \$	8,115.62 - 504,145.48 rane	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	86,290.12 \$ 86,290.12 \$ 6	-	\$ 86,290.12	\$
1	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hang Travellers Tie -in Datal Cost = \$ 2.761 Don Tower Type "B1" Don Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each each each	6 6 6 6 6 6 6 6 6 6	12 19 Ratio 0 30111 2 1 3 4 39 27 40 41 7	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00	\$ 60 \$ 0 Helicopter \$ 60 \$ 20 \$ 1,11 \$ 1,22 \$ 21,88 \$ 1,44 \$ 90 \$ 60	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 8.65 \$ 9.72 \$ 2.09 \$ 3.00 \$ 6.64 \$	1,352.60 \$	8,115.62 - 504,145.48 rane - - - - - - - - - - - - -	0 5 0 5 0 5 0 5 0 6 0 7 0 7	86,290.12 \$ 86,290.12 \$ 6	-	\$ 86,290.12	\$
4	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hang Travellers Tie -in Datal Cost = \$ 2.761 Don Tower Type "B1" Don Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install H. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each each each	Tower Settir ture count: D-0002 Section Weight (ib) = 0 0 0 0 0 0 0 0 0 0 0 0 0	12 12 13 14 39 27 40 41 7 8	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00 1.00	\$ 66 \$ 70 Helicopter \$ 66 \$ 28 \$ 1,18 \$ 21,88 \$ 21,88 \$ 1,44 \$ 99 \$ 66 \$ 1,44	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 8.65 \$ 9.72 \$ 2.09 \$ 3.00 \$ 6.64 \$ 4.07 \$	1,352.60 \$	8,115.62 - 504,145.48 rane - - - - - - - - - - - - -	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	86,290.12 \$ 86,290.12 \$ 86	-	\$ 86,290.12	\$
4	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hang Travellers Tie -in Datal Cost = \$ 2.761 Don Tower Type "B1" Don Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each each each	Tower Settir ture count: D-0002 Section Weight (ib) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 12 13 14 39 27 40 41 7 8 12	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00	\$ 66 \$ 70 Helicopter \$ 66 \$ 28 \$ 1,18 \$ 21,88 \$ 21,88 \$ 1,44 \$ 99 \$ 66 \$ 1,44	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 8.65 \$ 9.72 \$ 2.09 \$ 3.00 \$ 6.64 \$ 4.07 \$ 6.30 \$	1,352.60 \$	8,115.62 - 504,145.48 rane - - - - - - - - - - - - -	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	86,290.12 \$ 86,290.12 \$ 86,290.12 \$ 86,290.12 \$	-	\$ 86,290.12	\$
1	Tie -in Tot Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension S1-D54 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Hang Travellers Tie -in Datal Cost = \$ 2.761 Don Tower Type "B1" Don Tower Type "B1 + 0" as per dwg. Tower Type "B1 + 0" as per dwg. 5055 31846 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Frection Tower Flumb Haul Travellers Tie -in	each each each 1 per pound Total struc 573-4622-43D 122 each each each each each each each each	Tower Settir ture count: D-0002 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 12 13 14 39 27 40 41 7 8 12	1.00 2.00 0.00 EA 2.00 15.85 2.00 51.61 3.00 0.00 4.00 2.00 2.00 1.00	\$ 66 \$ 70 Helicopter \$ 66 \$ 28 \$ 1,18 \$ 21,88 \$ 21,88 \$ 1,44 \$ 99 \$ 66 \$ 1,44	6.30 \$ - \$ \$ 5.12 \$ 1.04 \$ 1.84 \$ 8.65 \$ 9.72 \$ 2.09 \$ 3.00 \$ 6.64 \$ 4.07 \$	1,352.60 \$	8,115.62 - 504,145.48 rane - - - - - - - - - - - - - -	0 5 0 5 0 5 0 5 0 5 0 6 0 7 0 7 0 8	86,290.12 \$ 86,290.12 \$ 86,290.12 \$ 86,290.12 \$ 87,352.60	-	\$ 86,290.12	\$



NALCOR 350 kV HVdc Line Construction	1 Torit 2 (Long Range Mount		Units		Harris man	Crew Cost						Total Unit Cost Manhours and	
Description			Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
•			•		•	<u> </u>			•			*	•
S1-D55 Assembly and Erection of Suspension		Total struc		0	EA		\$	-		\$ 89,405.62	\$ -	\$ 89,405.62	\$
S1-D55 Assembly and Erection of Suspension Tov													
Total Tower Weight With Guys and Ext. (lb) =	33198 Total Tower Height(ft) =		Section Weight (lb) =	31348									
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12 \$	1,350.24 \$			\$ -			
Haul	Hauling	each	0	1	16.51	\$ 441.04 \$	1,210.00 Q			\$ -			
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84 \$	563.68 \$	-		\$ -			
Assemble Tower	Lattice Assembly	each	0	39	53.73	\$ 1,183.92 \$	63,617.17 \$			\$ -			
Install Guy Strand Helicopter Set	Guy Install	each each	0	27	3.00 0.00	\$ 1,258.65 \$ 21.899.72 \$	3,775.95 \$			\$ - \$ -			
Crane Set	HL Helicopter Y- Tower Erection	each	0	40	4.00	\$ 1,482.09 \$	5,928.38 \$			\$ -			
Plumb Tower	Y- Tower Erection Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00 \$			\$ -			
haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.50	\$ 636.64 \$			0				
Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07 \$		-	0				
Tie -in	Tie -in	each	0	12	3.00	\$ 676.30 \$	2,028.91 \$		0				
110 111	116 -111	each	0		0.00	\$ - \$		-	Ů	\$ -			
Total	l Cost = \$ 2.6	91 per pound	-		<u> </u>	\$	89,405.62 \$		-	\$ -			
	·		1						_	<u> </u>			
S1-D56 Assembly and Erection of Suspension	Tower Type "B1 + 3" as per dy	g. Total struc	ture count:	0	EA		\$	-		\$ 90,917.19	\$ -	\$ 90,917.19	\$
S1-D56 Assembly and Erection of Suspension Tov					_					,		,	
Total Tower Weight With Guys and Ext. (lb) =	34123 Total Tower Height(ft) =	132	Section Weight (lb) =	32157									
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.1 2 \$	1,350.24 \$	-	0	\$ -			
Haul	Hauling	each	0	1	16.93	\$ 441.04 \$	7,467.52 \$	-		\$ -			
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84 \$	563.68 \$	_	0	\$ -			
Assemble Tower	Lattice Assembly	each	0	4	55.12	\$ 1,183.92 \$	11/20/11	-		\$ -			
Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,2 58.65 \$	3,775.95 \$	-		\$ -			
Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72 \$				\$ -			
Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09 \$		-		\$ -			
Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00 \$	-		\$ -			
haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64 \$				\$ -			
Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07 \$		-		\$ -			
Tie -in	Tie -in	each	0	12	3.00	\$ 676.30 \$		-		\$ -			
T. (1	10 1	each	0			- \$	- \$		0	\$ -			
Iotai	I Cost = \$ 2.6	880 per pound	1			\$	90,917.19 \$	-		\$ -			
S1-D57 Assembly and Erection of Suspension	Tower Time IID4 + 4.511 as not	Total struc	tura aquinti	_ 0	EA		\$	-		\$ 93,714.37	¢	\$ 93,714.37	ı e
S1-D57 Assembly and Erection of Suspension To				U	_ EA		Ψ	-		р 93,114.31	Φ -	φ 93,114.31	Ψ
Total Tower Weight With Guys and Ext. (lb) =	35476 Total Tower Height(ft) =	137	Section Weight (lb) =	33394									
Site Preparation	Site Preparation	each	n	2	2.00	\$ 675.12 \$	1,350.24 \$		n	\$ -			
Haul	Site Preparation Hauling	each	0	1	17.58	\$ 441.04 \$	7,754.73 \$			\$ -			
Setup Blocks	Hauling Blocking Crew	each	0	3	2.00	\$ 281.84 \$	563.68 \$	_		\$ -			
Assemble Tower	Lattice Assembly	each	0	4	57.24	\$ 1,183.92 \$	67,769.13 \$	_		\$ -			
Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65 \$	3,775.95 \$			\$ -			
Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72 \$	- \$			\$ -			
Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09 \$	5,928.38 \$	-		\$ -			
	Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00 \$	-		\$ -			
-		each	0	7	2.00	\$ 636.64 \$	1,273.27 \$	-		\$ -			
Plumb Tower	Haul Travellers&Glass					-	1,444.07 \$			\$ -			
Plumb Tower haul Insulators and Travellers	Haul Travellers&Glass Hang Travellers	each	0	8	1.00	\$ 1,444.07 \$	1,444.07 1 5	-	U	J -			
Plumb Tower naul Insulators and Travellers Hang Travellers			0		3.00	\$ 1,444.07 \$ 676.30 \$	2,028.91 \$	<u> </u>					
Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Hang Travellers	each	0 0	12			2,028.91 \$	=	0				



NALCOR 350 kV HVdc Line Construction From	nt 2 (Long Range Mounta	<mark>iin</mark> s)	Units		Hours	Crew Cost						Total Unit Cost Manhours and	
Description			Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
S1-D58 Assembly and Erection of Suspension Towe	ver Tyne "R1 ± 6" as ner dwc	Total struc	eture count:	0	EA		\$	-		\$ 94,831.25	¢ -	\$ 94,831.25	•
S1-D58 Assembly and Erection of Suspension Tower T							Ψ			ψ 54,001.20	Ψ	Ψ 54,001.20	Ψ
	Total Tower Height(ft) =	142	Section Weight (lb) =	33887									
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12 \$	1,350.24 \$	_	0	\$ -			
Haul	Hauling	each	0	1	17.84	\$ 441.04 \$	7,869.41 \$		0	•			
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84 \$	563.68 \$		0	\$ -			
Assemble Tower	Lattice Assembly	each	0	4	58.09	\$ 1,183.92 \$	68,771.33 \$	-	0	\$ -			
Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65 \$	3,775.95 \$	-	0	\$ -			
Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72 \$	- \$	-	0	\$ -			
Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09 \$	5,928.38 \$		0	\$ -			
Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00 \$	-	0	\$ -			
haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64 \$		-	0	\$ -			
Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07 \$	1,444.07 \$	-	0	·			
Tie -in	Tie -in	each	0	12	3.00	\$ 676.30 \$	2,028.91 \$	-	0				
		each	0			\$ - \$		-	0	\$ -			
Total Cos	st = \$ 2.65	8 per pound				\$	94,831.25 \$			<u>-</u>			
S1-D59 Assembly and Erection of Suspension Towe			ture count:	0	EA		\$	-		\$ 96,701.02	\$ -	\$ 96,701.02	\$
S1-D59 Assembly and Erection of Suspension Tower T			3DD-0002										
	7029 Total Tower Height(ft) =	147	Section Weight (lb) =	34714									
Site Preparation	Site Preparation	each	0	2		\$ 675.12 \$			0				
Haul	Hauling	each	0	1	18.28	\$ 441.04 \$	8,061.40 \$	-	0				
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84 \$			0	•			
Assemble Tower	Lattice Assembly	each	0	4	59.50	\$ 1,183.92 \$		-	0	·			
Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65 \$	3,775.95 \$		0				
Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72 \$			0	*			
Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09 \$	-, +	-	0	•			
Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00 \$	1,826.00 \$	-	0	•			
haul Insulators and Travellers Hang Travellers	Haul Travellers&Glass	each	0	<u>7</u> 8	2.00	\$ 636. 64 \$ \$ 1,444.07 \$		-	0				
Tie -in	Hang Travellers	each each	0	12	3.00	\$ 1,444.07 \$ 6 76.30 \$		-	0				
Tie -III	Tie -in	each	0	12	3.00	\$ 0 70.30 \$	- \$	-	0				
Total Cos	st = \$ 2.64	9 per pound				<u> </u>	96,701.02 \$	-	U	\$ - \$ -			
Total Cos	st = φ 2.04	9 per pouriu	I			The state of the s	90,701.02	-		φ -			
S1-D60 Assembly and Erection of Suspension Towe				0	EA		\$	-		\$ 98,391.29	\$ -	\$ 98,391.29	\$
S1-D60 Assembly and Erection of Suspension Tower T	Ivpe "B1 + 9" as per dwg. 505	56/3-4622-43[JD-0002										
				05400									
Total Tower Weight With Guys and Ext. (lb) = 378	7892 Total Tower Height(ft) =	152	Section Weight (lb) =	35462	0.00	075.40	4.050.04.1.5		1 61	Φ			
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation	7892 Total Tower Height(ft) = Site Preparation	152 each		2	2.00	\$ 675.12 \$	1,350.24 \$	-	0				
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation Haul	7892 Total Tower Height(ft) = Site Preparation Hauling	152 each each		2 1	18.67	\$ 441.04 \$	8,234.95 \$	-	0	\$ -			
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation Haul Setup Blocks	7892 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	152 each each each	Section Weight (lb) =	2 1 3	18.67 2.00	\$ 441.04 \$ \$ 281.84 \$	8,234.95 \$ 563.68 \$	-	0	\$ - \$ -			
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation Haul Setup Blocks Assemble Tower	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4	18.67 2.00 60.79	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$	- - -	0 0	\$ - \$ - \$			
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	7892 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each	Section Weight (lb) =	2 1 3 4 39	18.67 2.00 60.79 3.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$	- - -	0 0 0	\$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27	18.67 2.00 60.79 3.00 0.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$ - \$	- - -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (lb) = 378 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40	18.67 2.00 60.79 3.00 0.00 4.00	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$ - \$ 5,928.38 \$	- - - -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (Ib) = 378 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41	18.67 2.00 60.79 3.00 0.00 4.00 2.00	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$	- - - - - -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (1b.) = 378 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41 7	18.67 2.00 60.79 3.00 0.00 4.00 2.00 2.00	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$	- - - - - - -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (1b) = 378 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers	152 each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41 7 8	18.67 2.00 60.79 3.00 0.00 4.00 2.00 2.00 1.00	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$ \$ 1,444.07 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$	- - - - - - - -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
Total Tower Weight With Guys and Ext. (lb) = 378	Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41 7	18.67 2.00 60.79 3.00 0.00 4.00 2.00 2.00	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$ \$ 913.00 \$ \$ 636.64 \$	8,234.95 \$ 563.68 \$ 71,965.83 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$	- - - - - - -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			



Description			Units Total	Crow No	Hours per							Manhours and	
			. •	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
S1-D61 Assembly and Erection of Suspension Tower Ty	ne "R1 ± 10 5" as ner	Total struc	ture count:	0	EA		9	-		\$ 101,343.04	s -	\$ 101,343.04	\$
S1-D61 Assembly and Erection of Suspension Tower Type '			· · · · · · · · · · · · · · · · · · ·	<u> </u>						Ψ 101,010101	•	Ψ 101,040104	•
Total Tower Weight With Guys and Ext. (lb) = 39313	Total Tower Height(ft) =	157	Section Weight (lb) =	36767									
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12	\$ 1,350.24	-	0	\$ -			
Haul	Hauling	each	0	1	19.36	\$ 441.04	\$ 8,538.04	-	0	\$ -			
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84	\$ 563.68	-	0	\$ -			
Assemble Tower	Lattice Assembly	each	0	4	63.02	\$ 1,183.92	\$ 74,614.50 \$		0	\$ -			
Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65	\$ 3,775.95	-	0	\$ -			
Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72	\$ - \$	-	0	\$ -			
Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09	\$ 5,928.38		0	\$ -			
Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00 \$	-	0	\$ -			
haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64			0	\$ -			
Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07			0	\$ -			
Tie -in	Tie -in	each	0	12	3.00	\$ 676.30			0				
		each	0			\$ -	\$ - \$	-	0	\$ -			
Total Cost =	\$ 2.62	7 per pound					\$ 101,343.04			\$ -			
S1-D62 Assembly and Erection of Suspension Tower Ty				1	EA		\$	103,377.35		\$ 103,377.35	\$ -	\$ 103,377.35	\$
S1-D62 Assembly and Erection of Suspension Tower Type '			DD-0002										
Total Tower Weight With Guys and Ext. (lb) = 40328	Total Tower Height(ft) =	161	Section Weight (lb) =	37666									
Site Preparation	Site Preparation	each	1	2	/	\$ 675.12							
Haul	Hauling	each	1	1	19.83	\$ 441.04							
Setup Blocks	Blocking Crew	each	1	3	2.00	\$ 281.84							
Assemble Tower	Lattice Assembly	each	1	4	64.57	\$ 1,183.92			1				
Install Guy Strand	Guy Install	each	1	39	3.00	\$ 1,25 8.65	\$ 3,775.95			<u> </u>			
Helicopter Set	HL Helicopter	each	1	27	0.00	\$ 21,899.72	\$ - \$		1	•			
Crane Set	Y- Tower Erection	each	1	40	4.00	\$ 1,482.09							
Plumb Tower	Tower Plumb	each	1	41	2.00	\$ 913.00			1				
haul Insulators and Travellers	Haul Travellers&Glass	each	1	7	2.00	\$ 636.64			1				
Hang Travellers	Hang Travellers	each	1	8	1.00	\$ 1,444.07			1				
Tie -in	Tie -in	each	1	12	3.00	6 76.30			1	·			
T.110.1	Φ 0.044	each	1			\$ -	\$ - 9		1				
Total Cost =	\$ 2.619	per pound					\$ 103,377.35	103,377.35		\$ 103,377.35			
S1-D63 Assembly and Erection of Suspension Tower Ty		Total struc		1	EA		\$	106,739.19		\$ 106,739.19	\$ -	\$ 106,739.19	\$
S1-D63 Assembly and Erection of Suspension Tower Type ' Total Tower Weight With Guys and Ext. (Ib) = 41275				20407									
	Total Tower Height(ft) =	166	Section Weight (lb) =	38497	2.00	¢ 675.40	\$ 1,350.24	1 250 24	1 1	\$ 1,350.24			
Site Preparation Haul	Site Preparation	each	1		20.27	\$ 675.12 \$ 441.04							
Setup Blocks	Hauling	each	1	1	20.27	\$ 441.04							
Assemble Tower	Blocking Crew	each	1	3	65.99	\$ 281.82	\$ 563.68 \$		1				
Install Guy Strand	Lattice Assembly	each	1	39			\$ 78,126.67 \$						
Helicopter Set	Guy Install		1	27	3.00	\$ 1,258.65	<u> </u>						
	HL Helicopter	each	1	40	0.00 5.00	\$ 21,899.72	\$ - \$ \$ 7,410.47 \$	- 7,410.47	1	\$ - \$ 7,410.47			
Crane Set Plumb Tower	Y- Tower Erection	each	1	40	2.00	\$ 1,482.09							
haul Insulators and Travellers	Tower Plumb	each each	1	7	2.00	\$ 913.00 \$ 636.64				:			
Hang Travellers	Haul Travellers&Glass	each	1	8	1.00	\$ 1,444.07				<u> </u>			
Tie -in	Hang Travellers	each	1	12	3.00	\$ 1,444.07				•			
	Tie -in	eacii		12	3.00	Ψ 0/0.30		•					
no in		each	1			- S	- 9	<u>-</u>	1	S - 1			



	NALCOR 350 kV HVdc Line Construction	<mark>n Front 2 (Long Range Mountai</mark>	<mark>n</mark> s)				Crew Cost						Total Unit Cost	
ent				Units		Hours per							Manhours and	
ľ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
;	O4 D04 Assembly and English of Occurrencies	- T T D4 - 45 d	Total atmica		_				¢ 047.047.0	E	¢ 400 coo oo ¢		¢ 400 coo oo	•
	S1-D64 Assembly and Erection of Suspension				2	EA			\$ 217,247.8	55	\$ 108,623.92 \$	-	\$ 108,623.92	\$
•	S1-D64 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) =	4225 Total Tower Height(ft) =	5573-4622-43 171	Section Weight (lb) =	39331									
Г	Site Preparation	Site Preparation	each	Section Weight (ib) =		2.00	\$ 675.12	\$ 1,350.24	\$ 2,700.4	9 2	\$ 1,350.24			
_	Haul	Site Preparation Hauling	each	2				\$ 9,133.45						
_	Setup Blocks	Hauling Blocking Crew	each	2		2.00		\$ 563.68			,			
	Assemble Tower	Lattice Assembly	each	2			<u> </u>	\$ 79.817.87			•			
	Install Guy Strand	Cattice Assembly Guy Install	each	2	•	3.00	,	\$ 3,775.95	, , , , , , , , , , , , , , , , , , , ,					
	Helicopter Set	Guy install HL Helicopter	each	2		0.00			\$ 7,551.5					
	Crane Set	Y- Tower Erection	each	2		5.00	7 7	\$ 7,410.47	Ψ		•			
	Plumb Tower	Tower Plumb	each	2		2.00	,	\$ 1,826.00						
	haul Insulators and Travellers	Haul Travellers&Glass	each	2	• •	2.00		\$ 1,273.27						
	Hang Travellers	Haut Travellers & Glass Hang Travellers	each	2		1.00	\$ 1.444.07							
-	Tie -in	Tie -in	each	2		3.00	\$ 676.30	1 /	, ,,,,,					
ŀ	110 111	ne-m	each	2		0.00		\$ -						
L	Tot	tal Cost = \$ 2.641	l per pound	_	•			\$ 108,623.92	1		\$ 108,623.92			
	100	Δ.041	i pei peana	I				Ψ 100,020.32	Ψ 211,241.0		Ψ 100,020.02			
	S1-D65 Assembly and Erection of Suspension	Tower Type "R1 + 16.5" as per	Total struc	ture count:	1	EA			\$ 110,299.2	Λ	\$ 110,299.24 \$		\$ 110,299.24	¢
	S1-D65 Assembly and Erection of Suspension T								110,233.2		Ψ 110,233.24 Ψ		Ψ 110,233.24	Ψ
,	Total Tower Weight With Guys and Ext. (lb) =	43081 Total Tower Height(ft) =	176	Section Weight (lb) =	40071									
Г	Site Preparation	Site Preparation	each	3ection Weight (ib) =	2	2.00	\$ 675.1 2	\$ 1,350.24	\$ 1,350.2	24 1	\$ 1,350.24			
	Haul	· · · · · · · · · · · · · · · · · · ·	each	1 1	1	21.10	\$ 441.04				,			
	Setup Blocks	Hauling	each	'	3	2.00	\$ 281.84							
	Assemble Tower	Blocking Crew Lattice Assembly	each	1	4	68.69		\$ 81,321.17						
_	Install Guy Strand	Lattice Assembly Guy Install	each	1	39	3.00	, , , , , ,	\$ 3,775.95						
	mstan Guy Ghand	Guy Instali	Cacii		00	0.00	Ψ 1,200.00	Ψ 0,110.00	Ψ 5,115.5	10	,			
- Iv	Heliconter Set	U. U.P.	each	1	27	0.00	\$ 21,800,72	\$ _	\$ -	1	\$			
_	Helicopter Set	HL Helicopter	each	1	27	0.00		\$ - \$ 7,410,47		1 1				
(Crane Set	Y- Tower Erection	each	1 1	40	5.00	\$ 1,482.09	7 ,410.47	\$ 7,410.4	7 1	\$ 7,410.47			
[Crane Set Plumb Tower	Y- Tower Erection Tower Plumb	each each	1 1 1	40 41	5.00 2.00	\$ 1,482.09 \$ 913.00	\$ 7 ,410.47 \$ 1,826.00	\$ 7,410.4 \$ 1,826.0	17 1 00 1	\$ 7,410.47 \$ 1,826.00			
<u> </u>	Crane Set Plumb Tower haul Insulators and Travellers	Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each	1 1 1 1 1	40 41 7	5.00 2.00 2.00	\$ 1,482.09 \$ 913.00 \$ 636.64	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2	7 1 00 1 27 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27			
<u> </u>	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Y- Tower Erection Tower Plumb Haul Travellens&Glass Hang Travellens	each each each each	1 1 1 1 1 1 1	40 41 7 8	5.00 2.00 2.00 1.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0	7 1 00 1 27 1 07 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07			
<u> </u>	Crane Set Plumb Tower haul Insulators and Travellers	Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each	1 1 1 1 1 1 1 1 1	40 41 7 8	5.00 2.00 2.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9	7 1 00 1 27 1 07 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91			
<u> </u>	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Y- Tower Erection Tower Plumb Haul Travellers&Class Hang Travellers Tie -in	each each each each each each	1 1	40 41 7 8	5.00 2.00 2.00 1.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ -	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ -	.7 1 00 1 27 1 07 1 01 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ -			
<u> </u>	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Y- Tower Erection Tower Plumb Haul Travellers&Class Hang Travellers Tie -in	each each each each each	1 1	40 41 7 8	5.00 2.00 2.00 1.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ -	.7 1 00 1 27 1 07 1 01 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91			
 	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Y- Tower Election Tower Plumb Haul Travellers & Cilass Hang Travellers Tile -in 2.634	each each each each each each each per pound	1	40 41 7 8 12	5.00 2.00 2.00 1.00 3.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ - \$ 110,299.2	17 1 100 1 127 1 107 1 101 1 11 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24		\$ 111 979 54	.
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension	Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tile -in tal Cost = \$ 2.634 n Tower Type "B1 + 18" as per dwg	each each each each each each each per pound	ture count:	40 41 7 8	5.00 2.00 2.00 1.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ -	17 1 100 1 127 1 107 1 101 1 11 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ -	<u>.</u>	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T	Y- Tower Election Tower Plumb Haul Travellers & Cilass Hang Travellers Tile -in Eal Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg Tower Type "B1 + 18" as per dwg. 504	each each each each each each each each	ture count:	40 41 7 8 12	5.00 2.00 2.00 1.00 3.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ - \$ 110,299.2	17 1 100 1 127 1 107 1 101 1 11 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24	<u>.</u>	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) =	Y- Tower Erection Tower Plumb Haul Travellers & Cilass Hang Travellers Tie -in Fall Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg Ower Type "B1 + 18" as per dwg. 50: 43940 Total Tower Height(ft) =	each each each each each each each each	ture count:	40 41 7 8 12	5.00 2.00 2.00 1.00 3.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ - \$ 110,299.2 \$ 111,979.5	77 1 00 1 27 1 17 1 101 1 1 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$	<u>.</u>	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation	V- Tower Erection Tower Plumb Haul Travellers & Class Hang Travellers Tie -in Fall Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg Ower Type "B1 + 18" as per dwg. 50: 43940 Total Tower Height(ft) = Site Preparation	each each each each each each each each	ture count:	40 41 7 8 12 1 40814	5.00 2.00 2.00 1.00 3.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 1,350.24	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ - \$ 110,299.2 \$ 111,979.5	77 1 00 1 177 1 177 1 111 1 1 1 24	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$	-	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul	Y- Tower Erection	each each each each each each each each	ture count: BDD-0002 Section Weight (lb) =	40 41 7 8 12 1 40814 2	5.00 2.00 2.00 1.00 3.00 EA	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ - \$ 110,299.2 \$ 111,979.5	77 1 00 1 177 1 177 1 111 1 1 1 144 1 144 1 164 1 170 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ 1,350.24 \$ 9,478.00	_	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	V- Tower Erection	each each each each each each each each	ture count: BDD-0002 Section Weight (lb) =	40 41 7 8 12 1 40814 2 1 3	5.00 2.00 2.00 1.00 3.00 EA	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ -\$ \$ 111,979.5 \$ 1,350.2 \$ 9,478.0 \$ 563.6	77 1 00 1 177 1 177 1 111 1 1 1 144 1 144 1 164 1 168 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 1,350.24 \$ 9,478.00 \$ 563.68	-	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower	V- Tower Erection	each each each each each each each each	ture count: BDD-0002 Section Weight (lb) =	40 41 7 8 12 1 40814 2 1 3 4	5.00 2.00 2.00 1.00 3.00 EA	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ -\$ \$ 110,299.2 \$ 111,979.5 \$ 9,478.0 \$ 563.6 \$ 82,828.9	1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ \$ 1,350.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94	-	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	V- Tower Erection	each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 39	EA 2.00 2.00 3.00 EA 2.00 3.00 69.96 3.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ -\$ \$ 110,299.2 \$ 111,979.5 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9	77 1 00 1 127 1 177 1 111 1 1 1 144 1 164 1 168 1 168 1 168 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ 1,350.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95	-	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	V-Tower Erection Tower Plumb Haul Travellers & Class Hang Travellers Tie -in tal Cost = \$ 2.634 n Tower Type "B1 + 18" as per dwg ower Type "B1 + 18" as per dwg. 504 43940 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattic Assembly Guy Install HL Helicopter	each each each each each each each for per pound each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 39 27	5.00 2.00 2.00 1.00 3.00 EA 2.00 21.49 2.00 69.96 3.00 0.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ -	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ 110,299.2 \$ 111,979.5 \$ 1,350.2 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9	1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ -	-	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	V-Tower Erection Tower Plumb Haul Travellers & Class Hang Travellers Tie -in Tal Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg. 504 Year Type "B1 + 18" as per dwg. 504 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL. Helicopter Y-Tower Erection	each each each each each each each for per pound each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 39 27 40	5.00 2.00 2.00 1.00 3.00 EA 2.00 21.49 2.00 69.96 3.00 0.00 5.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ - \$ 7,410.47	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.5 \$ 110,299.2 \$ 111,979.5 \$ 1,350.2 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9 \$ 7,410.4	77 1 00 1 127 1 177 1 111 1 1 1 184 1 195 1 177 1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ - \$ 7,410.47		\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	V-Tower Erection Tower Plumb Haul Travellers Aclass Hang Travellers Tie -in Tal Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg Yower Type "B1 + 18" as per dwg. 504 43940 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL. Helicopter Y-Tower Erection Tower Plumb	each each each each each each each for per pound each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 39 27 40 41	5.00 2.00 2.00 1.00 3.00 EA 2.00 21.49 2.00 69.96 3.00 0.00 5.00 2.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.5 \$ 110,299.2 \$ 111,979.5 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9 \$ 7,410.4 \$ 1,826.0	1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ \$ 1,350.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00	-	\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	V-Tower Erection Tower Plumb Haul Travellers Aciass Hang Travellers Tie -in tal Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg. Sower Type "B1 + 18" as per dwg. 508 43940 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Giass	each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 3 9 27 40 41 7	5.00 2.00 2.00 1.00 3.00 EA 2.00 21.49 2.00 69.96 3.00 0.00 5.00 2.00 2.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ 110,299.2 \$ 111,979.5 \$ 1,350.2 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9 \$ 7,410.4 \$ 1,826.0 \$ 1,273.2	1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ \$ 1,350.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00 \$ 1,273.27		\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tile -in Fall Cost = \$ 2.634 Tower Type "B1 + 18" as per dwg. 504 Tower Type "B1 + 18" as per dwg. 504 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Flumb Haul Travellers&Glass Hang Travellers	each each each each each each each for per pound g. Total struc 5573-4622-43 181 each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1 1 1 1 1 1 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 3 9 27 40 41 7 8	5.00 2.00 2.00 1.00 3.00 EA 2.00 21.49 2.00 69.96 3.00 0.00 5.00 2.00 2.00 1.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ 110,299.2 \$ 111,979.5 \$ 1,350.2 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9 \$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0	1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ \$ 1,350.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07		\$ 111,979.54	\$
	Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D66 Assembly and Erection of Suspension S1-D66 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	V-Tower Erection Tower Plumb Haul Travellers Aciass Hang Travellers Tie -in tal Cost = \$ 2.634 In Tower Type "B1 + 18" as per dwg. Sower Type "B1 + 18" as per dwg. 508 43940 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Giass	each each each each each each each each	ture count: BDD-0002 Section Weight (lb) = 1 1 1 1	40 41 7 8 12 1 40814 2 1 3 4 39 27 40 41 7 8 12	5.00 2.00 2.00 1.00 3.00 EA 2.00 21.49 2.00 69.96 3.00 0.00 5.00 2.00 2.00	\$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ 7,410.4 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9 \$ 110,299.2 \$ 111,979.5 \$ 1,350.2 \$ 9,478.0 \$ 563.6 \$ 82,828.9 \$ 3,775.9 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.9	1	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 110,299.24 \$ 111,979.54 \$ \$ 1,350.24 \$ 9,478.00 \$ 563.68 \$ 82,828.94 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	-	\$ 111,979.54	\$



	ont 2 (Long Range Mount		Lluita			Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Description			rotar	CIEW NO.	unit	Hourly Nate	Offic Cost	Cubiotai	Office	Offit Cost	Waterials	Waterials	Total Materials
S1-D67 Assembly and Erection of Suspension Tow	ver Type "B1 + 19.5" as per	Total struct	ture count:	0	EA		\$	-		\$ 115,285.30	\$ -	\$ 115,285.30	\$
S1-D67 Assembly and Erection of Suspension Tower	Type "B1 + 19.5" as per dwg.	505573-4622-4	3DD-0002		•			-					
9 , , ,	5518 Total Tower Height(ft) =	186	Section Weight (lb) =	42276							•		
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12	1,350.24 \$	-	0				
Haul	Hauling	each	0	1	22.26	\$ 441.04 \$		_	0				
Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84 \$	5 563.68 \$	-	0				
Assemble Tower	Lattice Assembly	each	0	4	72.47	\$ 1,183.92 \$	85,795.27 \$		0	*			
Install Guy Strand Helicopter Set	Guy Install	each each	0	39 27	3.00 0.00	\$ 1,258.65 S \$ 21,899.72 S	3,775.95 \$	-	0	*			
Crane Set	HL Helicopter Y- Tower Erection	each	0	40	5.00	\$ 1,482.09	7,410.47 \$		0	т			
Plumb Tower	Y- Tower Erection Tower Plumb	each	0	41	2.00	\$ 913.00	1.826.00 \$		0				
haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	, +	-	0	*			
Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1.444.07	1,444.07 \$	-	0				
Tie -in	Tie -in	each	0	12	3.00	\$ 676.30			0				
		each	0		0.00	\$ - 3		-	0	<u> </u>			
Total Cos	ost = \$ 2.6	15 per pound	- 1				115,285.30 \$			\$ -			
		,	•								•		
S1-D68 Assembly and Erection of Suspension Tow	ver Type "B1 + 21" as per dv	vg. Total struct	ture count:	1	EA		\$	118,447.70		\$ 118,447.70	\$ -	\$ 118,447.70	\$
S1-D68 Assembly and Erection of Suspension Tower			D-0002										
, , , , , , , , , , , , , , , , , , ,	Total Tower Height(ft) =		Section Weight (lb) =	43019							-		
Site Preparation	Site Preparation	each	1	2	2.00	\$ 675.1 2 \$		1,350.24	1				
Haul	Hauling	each	1	1	22.65	\$ 441.04 8	9,989.97 \$	9,989.97	1				
Setup Blocks	Blocking Crew	each	1	3	2.00	\$ 281.84 \$		563.68	1				
Assemble Tower	Lattice Assembly	each	1	4	73.74		87,303.04 \$	87,303.04	1	· · · · · · · · · · · · · · · · · · ·			
Install Guy Strand	Guy Install	each	1	39	3.00	\$ 1,258.65	3,775.95 \$	3,775.95	1				
Helicopter Set	HL Helicopter	each	1	27	0.00	\$ 21,899.72			1				
Crane Set	Y- Tower Erection	each	1	40	6.00	\$ 1,482.09	, , , , , , , , , , , , , , , , , , , ,	8,892.56	1	.,			
Plumb Tower haul Insulators and Travellers	Tower Plumb	each each	1	41 7	2.00	\$ 913.00 \$ \$ 636.64 \$	1,826.00 \$ 1,273.2 7 \$	1,826.00 1,273.27	1	· · · · · · · · · · · · · · · · · · ·			
Hang Travellers	Haul Travellers&Glass	each	1	8	1.00	\$ 1,444.07		1,273.27	1	, , ,			
Tie -in	Hang Travellers Tie -in	each	1	12	3.00	\$ 676.30		2,028.91	1				
116 -111	Tie -in	each	1	12	3.00	\$ - 9		2,020.91		\$ 2,020.91			
Total Cos	ost = \$ 2.6	43 per pound	' <u> </u>			Ψ - 9		118,447.70		\$ 118,447.70			
	οι ψ 2.0	To I por pourid	I				ν 110,111.10	110,111.70		Ψ 110,111.10			
	/er Type "B1 + 22.5" as per	Total struct	ture count:	_ 0	EA		\$	-		\$ 120,531.87	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow				0	EA		\$	-		\$ 120,531.87	-	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower		505573-4622-4		0 43941	EA		\$	-		\$ 120,531.87	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower	Type "B1 + 22.5" as per dwg.	505573-4622-4	3DD-0002		2.00	\$ 675.12	,	-	0	, ,,,,,,,,	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) =	505573-4622-4 196 each each	3DD-0002	43941 2 1	2.00 23.14	\$ 441.04	5 10,203.97 \$		0	\$ - \$ -	\$	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation	505573-4622-43 196 each each each	3DD-0002	43941 2 1 3	2.00 23.14 2.00	\$ 441.04 S \$ 281.84 S	5 10,203.97 \$ 5 563.68 \$	-	0	\$ - \$ - \$ -	\$	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling	505573-4622-4 196 each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0	43941 2 1 3 4	2.00 23.14 2.00 75.32	\$ 441.04 \$ 281.84 \$ 1,183.92 \$	5 10,203.97 \$ 5 563.68 \$ 6 89,173.21 \$	- - - -	0 0 0	\$ - \$ - \$ - \$ -	\$	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Town S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	505573-4622-4: 196 each each each each each	3DD-0002 Section Weight (lb) = 0 0 0	43941 2 1 3 4 39	2.00 23.14 2.00 75.32 3.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	5 10,203.97 \$ 5 563.68 \$ 6 89,173.21 \$ 6 3,775.95 \$	- - - -	0 0 0	\$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Town S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Hellicopter	505573-4622-4: 196 each each each each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0	43941 2 1 3 4 39 27	2.00 23.14 2.00 75.32 3.00 0.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	5 10,203.97 \$ 5 563.68 \$ 6 89,173.21 \$ 6 3,775.95 \$ 7 \$	- - - - -	0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Hellcopter Y- Tower Erection	505573-4622-4: 196 each each each each each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0	43941 2 1 3 4 39 27 40	2.00 23.14 2.00 75.32 3.00 0.00 6.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	5 10,203.97 \$ 5 563.68 \$ 6 89,173.21 \$ 6 3,775.95 \$ 7 \$ 8 8,892.56 \$	- - - - -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Hellcopter Y- Tower Erection Tower Plumb	505573-4622-4 196 each each each each each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0	43941 2 1 3 4 39 27 40 41	2.00 23.14 2.00 75.32 3.00 0.00 6.00 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$	5 10,203.97 \$ 5 563.68 \$ 6 89,173.21 \$ 6 3,775.95 \$ 7 \$ 8 8,892.56 \$ 1,826.00 \$	- - - - - - -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower Insulators and Travellers	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht Heiloopter Y-Tower Erection Tower Plumb Haul Travellers&Giass	505573-4622-4: 196 each each each each each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0	43941 2 1 3 4 39 27 40 41 7	2.00 23.14 2.00 75.32 3.00 0.00 6.00 2.00 2.00	\$ 441.04 \$ 281.84 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ \$	5 10,203.97 \$ 5 563.68 \$ 6 89,173.21 \$ 6 3,775.95 \$ 7 \$ 8 8,892.56 \$ 1,826.00 \$ 1,273.27 \$	- - - - - - - -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (Ib.) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower Insullators and Travellers Hang Travellers	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helitopter Y- Tower Erection Tower Plumb Hauf Travellers & Glass Hang Travellers	505573-4622-4: 196 each each each each each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	43941 2 1 3 4 39 27 40 41 7 8	2.00 23.14 2.00 75.32 3.00 0.00 6.00 2.00 2.00 1.00	\$ 441.04 \$ 281.84 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$	10,203.97 \$ 56 563.68 \$ 68 89,173.21 \$ 63 3,775.95 \$ 64 - \$ 65 8,892.56 \$ 65 1,826.00 \$ 65 1,273.27 \$ 65 1,444.07 \$	- - - - - - - - -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$
S1-D69 Assembly and Erection of Suspension Tow S1-D69 Assembly and Erection of Suspension Tower Total Tower Weight With Guys and Ext. (lb) = 47 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Type "B1 + 22.5" as per dwg. 7414 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht Heiloopter Y-Tower Erection Tower Plumb Haul Travellers&Giass	505573-4622-4: 196 each each each each each each each each	3DD-0002 Section Weight (lb) = 0 0 0 0 0 0	43941 2 1 3 4 39 27 40 41 7 8 12	2.00 23.14 2.00 75.32 3.00 0.00 6.00 2.00 2.00	\$ 441.04 \$ 281.84 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ \$	10,203.97 \$ 563.68 \$ 89,173.21 \$ 3,775.95 \$ 6 \$ 8,892.56 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$	- - - - - - - -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 120,531.87	\$



	NALCOR 350 kV HVdc Line Construction	n Front 2 (Long Range Mounta	<mark>in</mark> s)				Cr	rew Cost						Total Unit Cost	
nt				Units		Hours per								Manhours and	
ſ	Description			Total	Crew No.	unit	Hourl	y Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
				_	_					• • • • • • • • • • • • • • • • • • • •	_	.		A	
	S1-D70 Assembly and Erection of Suspension				2	EA				\$ 249,943.8	37	\$ 124,971.93 \$	=	\$ 124,971.93	\$
٠	S1-D70 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) =	Tower Type "B1 + 24" as per dwg. 505 48183 Total Tower Height(ft) =			44593										
Г	Site Preparation		each	Section Weight (lb) =		2.00	Ι φ	675.12 \$	1,350.24	\$ 2,700.4	19 2	\$ 1,350.24			
	Haul	Site Preparation	each	2		23.48	\$	441.04 \$							
_	Setup Blocks	Hauling Blocking Crew	each	2		2.00	Φ	281.84 \$							
	Assemble Tower	Blocking Crew Lattice Assembly	each	2		76.44	Φ	1,183.92 \$							
	Install Guy Strand	Cartice Assembly Guy Install	each	2		3.00	\$	1,258.65 \$,						
_	Helicopter Set	Guy instali HL Helicopter	each	2		0.00	\$	21.899.72 \$			2				
	Crane Set	Y- Tower Erection	each	2		8.00	\$	1,482.09 \$	_	T					
_	Plumb Tower	Tower Plumb	each	2		2.00	\$	913.00 \$							
	haul Insulators and Travellers	Haul Travellers&Glass	each	2		2.00	\$	636.64 \$.,						
	Hang Travellers	Hang Travellers	each	2		1.00	\$	1,444.07 \$							
_	Tie -in	Tie -in	each	2		3.00	\$	676.30 \$							
F			each	2		0.00	\$	- \$							
L	Tot	tal Cost = \$ 2.696	6 per pound			<u> </u>		\$		\$ 249.943.8		\$ 124,971.93			
		·		1							_	,			
•	S1-D71 Assembly and Erection of Suspension	n Tower Type "B1 + 25.5" as per	Total struc	ture count:	0	EA				\$ -		\$ 126,851.68 \$	-	\$ 126,851.68	\$
	S1-D71 Assembly and Erection of Suspension To		05573-4622-4	3DD-0002		_						,		,	
	Total Tower Weight With Guys and Ext. (lb) =	49130 Total Tower Height(ft) =	206	Section Weight (lb) =	45424										
۶	Site Preparation	Site Preparation	each	0		2.00	\$	675.12 \$	1,350.24	\$ -	0	\$ -			
ŀ	Haul	Hauling	each	0	1	23.92	\$	441.04 \$	10,548.52	\$ -	0	\$ -			
ç	Setup Blocks	Blocking Crew	each	0	3	2.00	\$	281.84 \$	563.68	\$	0	\$ -			
/	Assemble Tower	Lattice Assembly	each	0	4	77.86	\$	1,183.92 \$	92,184.27	\$ -	0	\$ -			
I	Install Guy Strand	Guy Install	each	0	39	3.00	\$	1,25 8.65 \$	3,775.95	\$ -					
ŀ	Helicopter Set	HL Helicopter	each	0	27	0.00	\$	21,899.72 \$	-	\$ -	-				
(Crane Set	Y- Tower Erection	each	0	40	8.00	\$	1,482.09 \$							
F	Plumb Tower	Tower Plumb	each	0	41	2.00	\$	913.00 \$	1,826.00						
ŀ	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$	636.64 \$							
	Hang Travellers	Hang Travellers	each	0	8	1.00	\$	1,444.07 \$	1,444.07	\$ -	0				
_	Tie -in														
_	He -III	Tie -in	each	0	12	3.00	\$	6 76.30 \$		\$ -		-			
_		Tie -ln	each each	0	.=		\$	6 76.30 \$		\$ -		-			
_		Tie -ln	each	0	.=		\$			\$ -	0	-			
Ī	Tota	Tie-in Stal Cost = \$ 2.688	each each 8 per pound	0		3.00	\$ \$		126,851.68	\$ - \$ -	0	\$ - \$ -			
5	Total	tal Cost = \$ 2.688 on Tower Type "B1 + 27" as per dwg	each each per pound Total struc	ture count:	.=		\$ \$		126,851.68	\$ -	0	\$ -	-	\$ 128,531.98	\$
5	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension To	tal Cost = \$ 2.688 on Tower Type "B1 + 27" as per dwg Fower Type "B1 + 27" as per dwg. 505	each each 8 per pound Total struc 5573-4622-431	ture count:	1	3.00	\$		126,851.68	\$ - \$ -	0	\$ - \$ -		\$ 128,531.98	\$
3	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) =	tal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. Tower Type "B1 + 27" as per dwg. 505 49989 Total Tower Height(ft) =	each each 8 per pound J. Total struc 5573-4622-431 211	ture count:	1 46167	3.00 EA	\$	- \$	126,851.68	\$ - \$ - \$ 128,531.9	0	\$ - \$ - \$ 128,531.98 \$	-	\$ 128,531.98	\$
\$ 5	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation	tal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. Tower Type "B1 + 27" as per dwg. 505 49989 Total Tower Height(ft) = Ste Preparation	each each 8 per pound 7. Total struc 5573-4622-431 211 each	ture count:	1 46167 2	3.00 EA	\$	- \$ \$ 675.12 \$	1,350.24	\$ - \$ - \$ 128,531.5 \$ 1,350.2	0 98	\$ - \$ - \$ 128,531.98 \$ \$ 1,350.24	-	\$ 128,531.98	\$
3 3 5 1	S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul	tal Cost = \$ 2.688 Tower Type "B1 + 27" as per dwg. 505 49989 Total Tower Height(ft) = Site Preparation Hauling	each each 8 per pound 7. Total struc 5573-4622-431 211 each each	ture count: DD-0002 Section Weight (lb) =	1 46167 2 1	3.00 EA 2.00 24.31	\$	- \$ \$ 675.12 \$ 441.04 \$	1,350.24 10,721.05	\$ - \$ - \$ 128,531.5 \$ 1,350.2 \$ 10,721.6	0 98 24 1 05 1	\$ - \$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05	-	\$ 128,531.98	\$
3 5 5 1	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	tal Cost = \$ 2.688 Tower Type "B1 + 27" as per dwg. 505 49989 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each graph gr	ture count: DD-0002 Section Weight (lb) =	1 46167 2 1 3	2.00 24.31 2.00	\$ \$	675.12 \$ 441.04 \$ 281.84 \$	1,350.24 10,721.05 563.68	\$ - \$ - \$ 128,531.5 \$ 1,350.2 \$ 10,721.0 \$ 563.6	0 08 08 1 05 1 155 1	\$ - \$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68	-	\$ 128,531.98	\$
3 5 5 7	S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower	Tie in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. 505 In Tower Type "B1 + 27" as per dwg. 505 In Tower Type "B1 + 27" as per dwg. 505 In Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each 7. Total struc each 211 each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1	1 46167 2 1 3 4	2.00 24.31 2.00 79.14	\$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$	1,350.24 10,721.05 563.68 93,692.05	\$ - \$ - \$ 128,531.5 \$ 1,350.2 \$ 10,721.6 \$ 563.6 \$ 93,692.6	0 08 08 09 09 09 10 10 10 10 10 10 10 10 10 10	\$ - \$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05	-	\$ 128,531.98	\$
\$ 9 E	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Tie in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. 505 In Tower Type "B1 + 27" as per dwg. 505 In Tower Type "B1 + 27" as per dwg. 505 In Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each 7. Total struc each 211 each each each each each each	ture count: DD-0002 Section Weight (lb) =	1 46167 2 1 3 4 39	2.00 24.31 2.00 79.14 3.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95	\$ - \$ 128,531.5 \$ 1,350.2 \$ 10,721.6 \$ 563.6 \$ 93,692.6 \$ 3,7775.9	0 08 08 09 09 09 10 10 10 10 10 10 10 10 10 10	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05 \$ 3,775.95		\$ 128,531.98	\$
\$ 9 E E E E E E E E E E E E E E E E E E	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Tie in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg Tower Type "B1 + 27" as per dwg. 508 49989 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install H. Helicopter	each each 8 per pound J. Total struc 5573-4622-431 211 each each each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1	1 46167 2 1 3 4 39 27	2.00 24.31 2.00 79.14 3.00 0.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95	\$ - \$ 128,531.9 \$ 1,350.2 \$ 10,721.6 \$ 563.6 \$ 93,692.6 \$ 3,775.9	0 24 1 25 1 88 1 25 1 25 1	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05 \$ 3,775.95 \$ -	_	\$ 128,531.98	\$
3 5 1 1 1 1 1	S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Tie in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg Tower Type "B1 + 27" as per dwg. 508 49989 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection	each each 8 per pound Total struc 5573-4622-431 211 each each each each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1	1 46167 2 1 3 4 39 27 40	2.00 24.31 2.00 79.14 3.00 0.00 8.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95 - 11,856.75	\$ -\$ \$ 128,531.9 \$ 1,350.2 \$ 10,721.0 \$ 563.0 \$ 93,692.0 \$ 3,775.0 \$ - \$ 11,856.7	0 24 1 25 1 88 1 25 1 15 1 75 1	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05 \$ 3,775.95 \$ - \$ 11,856.75	-	\$ 128,531.98	\$
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Tie in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg Tower Type "B1 + 27" as per dwg. 508 49989 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each 9. Total struc 5573-4622-431 211 each each each each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1	1 46167 2 1 3 4 39 27 40 41	2.00 24.31 2.00 79.14 3.00 0.00 8.00 2.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95 - 11,856.75 1,826.00	\$ -\$ \$ 128,531.9 \$ 1,350.2 \$ 10,721.0 \$ 563.6 \$ 93,692.0 \$ 3,775.0 \$ 11,856.7 \$ 1,826.0	0 24 1 05 1 05 1 05 1 05 1 75 1 100 1	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05 \$ 3,775.95 \$ - \$ 11,856.75 \$ 1,826.00	-	\$ 128,531.98	\$
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Tie -in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. 508 From Tower Type "B1 + 27" as per dwg. 508 49989 Total Tower Heightl(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each 9. Total struc 5573-4622-431 211 each each each each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1	1 46167 2 1 3 4 39 27 40 41	2.00 24.31 2.00 79.14 3.00 0.00 8.00 2.00 2.00	\$ \$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95 	\$ -\$ \$ 128,531.9 \$ 1,350.2 \$ 10,721.0 \$ 563.6 \$ 93,692.0 \$ 3,775.9 \$ 11,856.7 \$ 1,826.0 \$ 1,273.2	0 24 1 05 1 05 1 05 1 05 1 175 1 175 1 100 1 127 1	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05 \$ 3,775.95 \$ - \$ 11,856.75 \$ 1,826.00 \$ 1,273.27	-	\$ 128,531.98	\$
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Tie-in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. Tower Type "B1 + 27" as per dwg. 508 49989 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Silass Hang Travellers	each each g. Total struc 5573-4622-431 each each each each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1 1 1 1 1 1 1 1 1 1	1 46167 2 1 3 4 39 27 40 41 7 8	2.00 24.31 2.00 79.14 3.00 0.00 8.00 2.00 2.00 1.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95 11,856.75 1,826.00 1,273.27 1,444.07	\$ -\$ \$ 128,531.5 \$ 1,350.2 \$ 10,721.6 \$ 563.6 \$ 93,692.6 \$ 3,775.6 \$ 11,856.3 \$ 1,826.6 \$ 1,273.2 \$ 1,444.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ 10,721.05 \$ 563.68 \$ 93,692.05 \$ 3,775.95 \$ - \$ 11,856.75 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	-	\$ 128,531.98	\$
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total S1-D72 Assembly and Erection of Suspension S1-D72 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Tie -in Intal Cost = \$ 2.688 In Tower Type "B1 + 27" as per dwg. 508 From Tower Type "B1 + 27" as per dwg. 508 49989 Total Tower Heightl(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each 9. Total struc 5573-4622-431 211 each each each each each each each each	ture count: DD-0002 Section Weight (lb) = 1 1 1 1	1 46167 2 1 3 4 39 27 40 41 7 8	2.00 24.31 2.00 79.14 3.00 0.00 8.00 2.00 2.00	\$ \$ \$ \$ \$	675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$	1,350.24 10,721.05 563.68 93,692.05 3,775.95 	\$ -\$ \$ 128,531.5 \$ 1,350.2 \$ 10,721.0 \$ 563.6 \$ 93,692.0 \$ 3,775.5 \$ \$ 11,856.3 \$ 1,826.0 \$ 1,273.2 \$ 1,444.0 \$ 2,028.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ 128,531.98 \$ \$ 1,350.24 \$ \$ 10,721.05 \$ \$ 563.68 \$ \$ 93,692.05 \$ \$ 3,775.95 \$ \$ - \$ 11,856.75 \$ \$ 1,273.27 \$ \$ 1,444.07 \$ \$ 2,028.91		\$ 128,531.98	\$



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	n <mark>s</mark>)					Crew Cost						Total Unit Cost	
Payment		L	Jnits		Hours per								Manhours and	
Item	Description		Total	Crew No.	unit	Н	lourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
				-										
V-H20	Assembly and Erection of Medium Angle Tower Type "B2"									_				
V::D73	S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as			71	EA				\$ 7,572,054.4	3 \$	106,648.65	\$ -	\$ 106,648.65	\$ -
	S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as per													
	Total Tower Weight With Guys and Ext. (lb) = 38332 Total Tower Height(ft) =		Section Weight (lb) =	38332										
	Site Preparation Site Preparation	each	71	2	2.00	\$	675.12 \$	1,350.24			1,350.24			
	Haul Hauling	each	71	1	24.22	\$	441.04 \$,			10,681.84			
	Setup Blocks Blocking Crew	each	71	3	2.00	\$	281.84 \$	563.68			563.68			
	Assemble Lattice Assembly	each	71	4	56.37	\$	1,183.92 \$,	, , , , , , , , , , , , , , , , , , , ,		66,738.29			
	Erect Tower	each	71	6	11.11	\$	1,656.68 \$,	, , ,		18,406.94			
	haul Insulators and Travellers Haul Travellers&Glass	each	71	7	4.00	\$	636.64 \$	2,546.55			2,546.55			
	Hang Travellers Tia in	each	71	8	3.00	\$	1,444.07 \$		\$ 307,586.2		4,332.20			
	Tie -in Tie -in	each each	71 71	12	3.00	\$	676.30 \$	2,028.91	\$ 144,052.2 \$ -	7 71 \$ 71 \$	2,028.91			
		each	71			φ	- \$			71 \$				
		each	71			\$	- \$		\$ -	71 \$				
	Total Cost = \$ 2.729	per pound	711			Ψ	- \$	106,648.65	Ÿ		106,648.65			
	10τα 305τ ψ 2.720	per pourid					Ψ	100,040.00	Ψ 1,012,004.4	<u> </u>	100,040.00			
V::D74	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle	Total structi	ure count:	17	EA				\$ 467.814.8	9 \$	27,518.52	\$ -	\$ 27,518.52	\$ -
*	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Ty								101,01110	•		*	2.,0.002	•
	Total Tower Weight With Guys and Ext. (lb) = 11008 Total Tower Height(ft) =		Section Weight (lb) =	11008										
	Site Preparation Site Preparation	each	17	2		\$	675.12 \$	-	\$ -	17 \$	- 1			
	Haul	each	17	1	6.96	\$	441.04 \$		\$ 52,147.3	0 17 \$	3,067.49			
		each	17			\$	- \$		\$ -	17 \$	· -			
	Assemble Bottom Lattice Assembly	each	17	4	16.19	\$	1,183.92 \$	19,165.14	\$ 325,807.3	6 17 \$	19,165.14			
		each	17			\$	- \$	-	\$ -	17 \$	-			
		each	17			\$	- \$	-	\$ -	17 \$	-			
	Set Extension Tower Topping	each	17	6	3.19	\$	1,656.68 \$	5,285.90	\$ 89,860.2		5,285.90			
		each	17			\$	- \$	-	\$ -	17 \$	-			
		each	17		A	\$	- \$		\$ -	17 \$	-			
		each	17			\$	- \$		\$ -	T	-			
		each	17			\$	- \$		\$ -		-			
	Total Cost = \$ 2.500	per pound					\$	27,518.52	\$ 467,814.8	9 \$	27,518.52			
\/ D=5	04.0554 11 15 6 4.05 1 1 4 5 6 10 11	T-1-1-1-1		40	-				¢ 004.000.0		40 500 44	•	6 40 500 44	
V::D75	S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower T	Total structi		19 622 42 DD 0059	EA				\$ 884,680.0	8 \$	46,562.11	-	\$ 46,562.11	-
	Total Tower Weight With Guys and Ext. (lb) = 18294 Total Tower Height(ft) =		Section Weight (lb) =	18294										
	Site Preparation Site Preparation	each	19			\$	675.12 \$	-	\$ -	19 \$				
	Haul Hauling	each	19	1	11.56	\$	441.04 \$	5,097.94	Ψ		5,097.94			
	пашпу	each	19		. 1.00	\$	- \$		\$ 50,000.0	19 \$				
	Assemble Bottom Lattice Assembly	each	19	4	26.90	\$	1,183.92 \$	31,851.06	\$ 605,170.0		31,851.06			
	- Country	each	19		20.00	\$	- \$	-	\$ -		-			
		each	19			\$	- \$	-	\$ -		-			
	Set Extension Tower Topping	each	19	6	5.80	\$	1,656.68 \$		\$ 182,649.1		9,613.11			
		each	19			\$	- \$	-	\$ -		-			
		each	19			\$	- \$	-	\$ -		-			
		each	19			\$	- \$	-	\$ -	19 \$	-			
		each	19			\$	- \$		\$ -	19 \$	-			
	Total Cost = \$ 2.545	per pound					\$	46,562.11	\$ 884,680.0	8	46,562.11			



	V HVdc Line Construction Front 2 (Long R	<mark>(ange Mountain</mark> s)						Crew Cost						Total Unit Cost	
: December			Unit	ts Total	0 N	Hours per			11.70	Subtotal	Units		Materials	Manhours and Materials	Total Materials
Description				Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materiais	Materials	rotal Materials
S1-D76 Assembly	y and Erection of +0 m leg extension for Medium	n Angle Tower Total	structure	count.	40	EA			9	57,869.92	\$	1,446.75 \$	-	\$ 1,446.75	5 \$
	and Erection of +0 m leg extension for Medium An									01,000.02	Ψ	1,440.70 ψ		ψ 1,440.11	,
,	G	7	-	tion Weight (lb) =	579	9									
Site Preparation		Preparation eac		40	2		\$	675.12 \$	- 9	-	40 \$	_			
Haul	Haulin			40	1	0.37	\$	441.04 \$			40 \$				
Setup Blocks		ing Crew eac	ch	40	3		\$	281.84 \$	- 9	-	40 \$				
Assemble Bottom		e Assembly eac	ch	40	4	0.85	\$	1,183.92 \$	1,007.58	40,303.22	40 \$	1,007.58			
Panel Bottom		e Erection eac	ch	40	5		\$	1,519.02 \$	- 9	-	40 \$				
Assemble Tops	Lattic	e Assembly eac	ch	40	4		\$	1,183.92 \$	- 9	-	40 \$	-			
Set Leg	Tower	r Topping eac	ch	40	6	0.17	\$	1,656.68 \$	277.90 \$	11,115.94	40 \$				
		ead	ch	40			\$	- \$	- 9	-	40 \$	-			
		ead	ch	40			\$	- \$	- 9	-	40 \$				
		eac	ch	40			\$	- \$	- \$	-	40 \$	-			
		ead		40			\$	- \$			40 \$				
	Total Cost = \$	2.500 per po	ound					\$	1,446.75	57,869.92	\$	1,446.75			
	y and Erection of +1.5 m leg extension for Mediu				12				\$	24,305.36	\$	2,025.45 \$	-	\$ 2,025.4	5 \$
	and Erection of +1.5 m leg extension for Medium A					er leg									
	wer Weight With Guys and Ext. (lb) = 3241 Tota	al Tower Height(ft) = 13	36 Sect	tion Weight (lb) =	810										
Site Preparation	Site P	Preparation eac		12	2		\$	675.12 \$			12 \$				
Haul	Haulin			12	1	0.51	\$	441.04 \$							
Setup Blocks		ing Crew eac		12	3		\$	281. 84 \$			12 \$				
Assemble Bottom	Lattice	e Assembly eac		12	4	1.19	\$	1,183. 92 \$							
Panel Bottom	Lattice	e Erection eac		12	5		\$	1,519.02 \$			12 \$				
Assemble Tops	Lattice	e Assembly eac		12	4		\$	1,183.92 \$			12 \$				
Set Leg	Tower	r Topping eac		12	6	0.23	\$	1,656.68 \$			12 \$				
		ead		12			\$	- \$			12 \$				
		ead	ch	12			\$	- \$		-	12 \$				
		ead		12			\$	- \$			12 \$				
	7.110	eac eac	ch	12 12			\$	- \$ - \$	- \$	-	12 \$	-			
	Total Cost = \$	eac eac	ch				\$			-	12 \$				
C4 D70 Assembly	,	2.500 per po	ch ound	12	20	E	\$		2,025.45	24,305.36	12 \$	2,025.45		¢ 2 c22 2	
	y and Erection of +3 m leg extension for Medium	2.500 per po	ch ound structure	12 count:	28 3DD 0058, per l	EA	\$		- \$	24,305.36	12 \$	2,025.45	-	\$ 3,622.38	3 \$
S1-D78 Assembly	y and Erection of +3 m leg extension for Medium or and Erection of +3 m leg extension for Medium An	2.500 per point Angle Tower Total single Tower Type "B2" as p	ch ound structure per dwg. 5	12 • count: 505573-4622-43	3DD-0058, per l		\$		2,025.45	24,305.36	12 \$	2,025.45		\$ 3,622.36	3 \$
S1-D78 Assembly	y and Erection of +3 m leg extension for Medium of and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (1b) = 5796 Tota	2.500 per point and a point a point and a point a point and a point a point and a point a point a point a point a point a point a point a point and a point a poin	ch ound structure per dwg. 5	12 count: 505573-4622-43 tion Weight (lb) =	3DD-0058, per l 1449		1	- \$	2,025.45	24,305.36 101,426.67	12 \$	2,025.45 3,622.38 \$		\$ 3,622.38	3 \$
S1-D78 Assembly Total Tov Site Preparation	y and Erection of +3 m leg extension for Medium of and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota	eac eac	ch ound structure per dwg. 5	12 count: 505573-4622-43 tion Weight (lb) =	3DD-0058, per l	leg	\$	- \$ \$	2,025.45 \$	24,305.36 101,426.67	12 \$ \$ \$	2,025.45 3,622.38 \$		\$ 3,622.36	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul	y and Erection of +3 m leg extension for Medium and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota	eac eac	structure per dwg. 5 11 Secion	12 e count: 505573-4622-4: tion Weight (ib) = 28 28	3DD-0058, per l 1449 2 1		1	- \$ \$ 675.12 \$ 441.04 \$	2,025.45 \$	24,305.36 101,426.67 111,306.03	12 \$ \$ \$ 28 \$ 28 \$	2,025.45 3,622.38 \$	-	\$ 3,622.34	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota	eac eac	structure per dwg. 5 11 Sectorh ch ch	12 e count: 505573-4622-4: tion Weight (ib) = 28 28 28	3DD-0058, per l 1449 2 1 3	0.92	1	- \$ \$ 675.12 \$ 441.04 \$ 281.84 \$	- \$ 2,025.45 \$ - \$ 403.79 \$ - \$	24,305.36 101,426.67 11,306.03	12 \$ \$ \$ 28 \$ 28 \$ 28 \$	2,025.45 3,622.38 \$	-	\$ 3,622.34	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site Production Blockit Lattice	eac 2.500 per point Angle Tower Total state all Tower Height(ft) = 14 Preparation eac angle Tower Height(ft) = 14 angle Tower Height(ft) =	structure per dwg. 5 11 Sec ch ch ch	12 e count: 505573-4622-4: tion Weight (ib) = 28 28 28 28	3DD-0058, per l 1449 2 1	leg	1	- \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$	2,025.45 \$ 2,025.45 \$ 403.79 \$ 2,522.79 \$	24,305.36 101,426.67 11,306.03 70,638.10	12 \$ \$ \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$	- 2,025.45 3,622.38 \$	-	\$ 3,622.38	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site P Haufin Blocki Lattice Lattice	eac	structure per dwg. 5 11 Sect ch ch ch ch	12 count: 505573-4622-4: tion Weight (lb) = 28 28 28 28 28	3DD-0058, per l 1449 2 1 3 4	0.92	1	- \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$	- \$ 2,025.45 \$ \$ 403.79 \$ - \$ 2,522.79 \$ - \$	24,305.36 101,426.67 11,306.03 70,638.10	12 \$ \$ \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$	2,025.45 3,622.38 \$	-	\$ 3,622.36	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site P Haufin Blocki	eac	ch ound structure per dwg. 5 1 Sect ch ch ch ch ch ch	12 e count: 505573-4622-4(tion Weight (lb) = 28 28 28 28 28	3DD-0058, per l 1449 2 1 3 4 5	0.92 2.13	1	- \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$	- \$ 2,025.45 \$ - \$ 403.79 \$ - \$ 2,522.79 \$ - \$ - \$	24,305.36 101,426.67 11,306.03 70,638.10	12 \$ \$ \$ \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$	2,025.45 3,622.38 \$		\$ 3,622.36	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site P Haufin Blocki	eac	ch ound structure per dwg. 5 1 Sector ch ch ch ch ch ch ch ch	12 count: 505573-4622-4: tion Weight (lb) = 28 28 28 28 28	3DD-0058, per l 1449 2 1 3 4 5	0.92	1	- \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	- \$\frac{3}{2,025.45} \frac{3}{5}\$ - \$\frac{3}{403.79} \frac{3}{5}\$ - \$\frac{3}{2,522.79} \frac{3}{5}\$ - \$\frac{3}{695.81} \frac{3}{5}\$	24,305.36 101,426.67 11,306.03 70,638.10 - 19,482.54	12 \$ \$ \$ \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$	2,025.45 3,622.38 \$ 403.79 2,522.79 695.81		\$ 3,622.36	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site P Haufin Blocki	eac 2.500 per po 2.500 per po n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower Total state n Angle Tower	ch ound structure per dwg. 5 1 Sector ch ch ch ch ch ch ch ch ch	12 e count: 505573-4622-4: tion Weight (ib) = 28 28 28 28 28 28 28 28 28 28	3DD-0058, per l 1449 2 1 3 4 5	0.92 2.13	1	- \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	- \$\frac{3}{2,025.45} \frac{3}{5}\$ - \$\frac{3}{403.79} \frac{3}{5}\$ - \$\frac{3}{5} \frac{2,522.79}{5} \frac{3}{5}\$ - \$\frac{3}{5} \frac{695.81}{5} \frac{3}{5}\$	24,305.36 101,426.67 111,306.03 70,638.10 - 19,482.54	12 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.45 3,622.38 \$		\$ 3,622.36	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site P Haufin Blocki	eac	ch ound structure per dwg. 5 1 Sect ch ch ch ch ch ch ch ch ch ch ch ch ch	12 e count: 505573-4622-4(tion Weight (b) = 28 28 28 28 28 28 28 28	3DD-0058, per l 1449 2 1 3 4 5	0.92 2.13	1	- \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	- \$ 2,025.45 \$ - \$ 403.79 \$ - \$ 2,522.79 \$ - \$ 695.81 \$ - \$ - \$	24,305.36 101,426.67 111,306.03 70,638.10 19,482.54	12 \$ \$ \$ \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$ 28 \$	- 2,025.45 3,622.38 \$ - 403.79 - 2,522.79 - 695.81 -	-	\$ 3,622.36	3 \$
S1-D78 Assembly Total Tov Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	y and Erection of +3 m leg extension for Medium An and Erection of +3 m leg extension for Medium An wer Weight With Guys and Ext. (lb) = 5796 Tota Site P Haufin Blocki	eac	ch ound structure per dwg. 5 1 Sect ch ch ch ch ch ch ch ch ch ch ch ch ch	12 2 count: 505573-4622-4: 1tion Weight (lb) = 28 28 28 28 28 28 28 28 28 28 28 28 28	3DD-0058, per l 1449 2 1 3 4 5	0.92 2.13	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 675.12 \$ 4441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	- \$ 2,025.45 \$ - \$ 403.79 \$ - \$ 2,522.79 \$ - \$ 695.81 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24,305.36 101,426.67 111,306.03 70,638.10 19,482.54	12 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 2,025.45 3,622.38 \$ - 403.79 - 2,522.79 - - 695.81 - -	•	\$ 3,622.3	3 \$



	n Front 2 (Long Range Mounta		Units		Hours per	Crew Cost							l Unit Cost hours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials			tal Materials
S1-D79 Assembly and Erection of +4.5 m leg e	extension for Medium Angle Towe	or Total struct	ture count:	32	EA			135,184.12	. \$	4,224.50	¢	- \$	4,224.50 \$	
S1-D79 Assembly and Erection of +4.5 m leg extended and Erection o								133,104.12	. Ψ	4,224.30	Ψ	- φ	4,224.30 \$	
Total Tower Weight With Guys and Ext. (lb) =	6759 Total Tower Height(ft) =		Section Weight (lb) =	1690	J									
Site Preparation	Site Preparation	each	32	2		\$ 675.12	\$ - 5	-	32 \$	_				
Haul	Hauling	each	32		1.07	\$ 441.04	\$ 470.91	15,068.97	32 \$	470.91				
Setup Blocks	Blocking Crew	each	32	3		\$ 281.84	\$ - 5	-	32 \$	-				
Assemble Bottom	Lattice Assembly	each	32	4	2.49	\$ 1,183.92	\$ 2,942.13	94,148.31	32 \$	2,942.13				
Panel Bottom	Lattice Erection	each	32	5		\$ 1,519.02	- 5	-	32 \$	_	•			
Assemble Tops	Lattice Assembly	each	32	4		\$ 1,183.92	- 5	-	32 \$	-				
Set Leg	Tower Topping	each	32	6	0.49	\$ 1,656.68	\$ 811.46	25,966.84	32 \$	811.46				
		each	32			\$ -	- 3	-	32 \$	-				
		each	32			\$ -	\$ - 3	-	32 \$	-				
		each	32			\$ -	\$ - 3	-	32 \$	-				
		each	32			\$ -	Ψ		32 \$	-				
Tota	al Cost = \$ 2.50	00 per pound					\$ 4,224.50	135,184.12	\$	4,224.50				
S1-D80 Assembly and Erection of +6 m leg ext	tension for Medium Angle Tower	Total struct	ture count:	52				245,539.30	\$	4,721.91	\$	- \$	4,721.91 \$	
S1-D80 Assembly and Erection of +6 m leg exten	nsion for Medium Angle Tower Type	e "B2" as per dw	/g. 505573-4622-	43DD-0058, per l	leg									
Total Tower Weight With Guys and Ext. (lb) =	7555 Total Tower Height(ft) =	151	Section Weight (lb) =	1889							•			
Site Preparation	Site Preparation	each	52			\$ 675.12	\$ - 5		52 \$	-				
Haul	Hauling	each	52		1.19	\$ 441.04	526.35	27,370.25		526.35				
Setup Blocks	Blocking Crew	each	52			\$ 281.84		<u> </u>	52 \$	-				
Assemble Bottom	Lattice Assembly	each	52		2.78	\$ 1,183. 92	3,288.55	171,004.63		3,288.55				
Panel Bottom	Lattice Erection	each	52			\$ 1,519.02	\$ - 3	-	52 \$	-				
Assemble Tops	Lattice Assembly	each	52			\$ 1,183.92	\$ - !	<u> </u>	52 \$	-				
Set Leg	Tower Topping	each	52		0.55	\$ 1,656.68	\$ 907.01	47,164.42		907.01				
		each	52			\$ -	\$ -	-	52 \$	-				
								h						
		each	52			\$ -	- 5	•	52 \$	-				
		each each	52				- 5	- -	52 \$	-				
		each each	52 52				- 9	-		-				
Tota	al Cost = \$ 2.50	each	52 52				- 5	-	52 \$ 52 \$	-				
		each each 00 per pound	52 52				5 - S 5 4,721.91	5 - 5 - 5 245,539.30	52 \$ 52 \$ \$	- - 4,721.91		_		
S1-D81 Assembly and Erection of +7.5 m leg e	extension for Medium Angle Towe	each each 00 per pound Total struct	52 52 ture count:	44	EA		- 9	5 - 5 - 5 245,539.30	52 \$ 52 \$ \$	-	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg e S1-D81 Assembly and Erection of +7.5 m leg exte	extension for Medium Angle Towe tension for Medium Angle Tower Ty	each each 00 per pound er Total struct pe "B2" as per c	52 52 ture count: dwg. 505573-462	44 2-43DD-0058, pe	_		5 - S 5 4,721.91	5 - 5 - 5 245,539.30	52 \$ 52 \$ \$	- - 4,721.91	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg e S1-D81 Assembly and Erection of +7.5 m leg exte Total Tower Weight With Guys and Ext. (Ib) =	extension for Medium Angle Towe tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) =	each each 00 per pound er Total struct pe "B2" as per c 156	52 52 ture count: dwg. 505573-462 Section Weight (lb) =	44 2-43DD-0058, pe 2241	_	\$ -	5 - 5 5 - 5 5 4,721.91	245,539.30 246,503.79	52 \$ 52 \$ 52 \$	- 4,721.91 5,602.36	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg e S1-D81 Assembly and Erection of +7.5 m leg exte Total Tower Weight With Guys and Ext. (lb) = Site Preparation	extension for Medium Angle Towe tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation	each each 00 per pound er Total struct pe "B2" as per c 156 each	52 52 ture count: dwg. 505573-462 Section Weight (lb) =	44 2-43DD-0058, pe 2241 2	er leg	\$ 675.12	\$ - \$ 4,721.91 \$ \$ \$ - \$	245,539.30 246,503.79	52 \$ 52 \$ 52 \$ \$ \$	- 4,721.91 5,602.36	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg extended S1-D81 Assembly and Erection of +7.5 m leg extended Ext. (lb) = Site Preparation Haul	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation	each each 00 per pound er Total struct pe "B2" as per c 156 each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) =	44 2-43DD-0058, pe 2241 2	_	\$ 675.12 \$ 441.04	\$ - \$ \$ 4,721.91 \$ \$ \$ \$ 624.49 \$	245,539.30 246,503.79 27,477.76	52 \$ 52 \$ 52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg extended S1-D81 Assembly and Erection of +7.5 m leg extended Ext. (lb) = Site Preparation Haul Setup Blocks	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each oo per pound er Total struct pe "B2" as per c 156 each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44	44 2-43DD-0058, pe 2241 2 1	1.42	\$ 675.12 \$ 441.04 \$ 281.84	\$ - \$ 4,721.91 \$ \$ \$ - \$ \$ 624.49 \$ \$ - \$ \$	245,539.30 246,503.79 27,477.76	52 \$ 52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg external S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each oo per pound er Total struct pe "B2" as per of 156 each each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44	2-43DD-0058, pe 2241 2 1 3	er leg	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ - \$ \$ 4,721.91 \$ \$ \$ \$ 624.49 \$ \$ \$ - \$ \$ \$ 3,901.74 \$	5 245,539.30 5 246,503.79 6 27,477.76 6 171,676.35	52 \$ 52 \$ 52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg external State (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each 00 per pound er Total struct pe "B2" as per c 156 each each each each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44	2-43DD-0058, pe 2241 2 1 3 4 5	1.42	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ 4,721.91 \$ \$ \$ 624.49 \$ \$ - \$ \$ 3,901.74 \$ \$ \$ -	245,539.30 246,503.79 246,503.79 27,477.76 27,477.76 27,477.76 27,477.76	52 \$ 52 \$ 52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg external Sample S1-D81 Assembly and Erection of +7.5 m leg external Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each 00 per pound er Total struct pe "B2" as per o 156 each each each each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44	2-43DD-0058, pe 2241 2 1 3 4 5	1.42 3.30	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	5 - 5 4,721.91 S S 624.49 S S 3,901.74 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S - 5 S S S - 5 S S S - 5 S S S - 5 S S S S	5 - 245,539.30 5 246,503.79 5 27,477.76 5 171,676.35 6 - 5	52 \$ 52 \$ 52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 -	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg external State (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each old per pound er Total struct pe "B2" as per of 156 each each each each each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44	2-43DD-0058, pe 2241 2 1 3 4 5	1.42	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ 4,721.91 \$ \$ 4,721.91 \$ \$ \$ 624.49 \$ \$ 624.49 \$ \$ - \$ \$ \$ 3,901.74 \$ \$ - \$ \$ \$ 1,076.13 \$ \$ \$ 1,076.13 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 - 245,539.30 5 246,503.79 6 27,477.76 6 171,676.35 6 - 6 47,349.68	\$2 \$ \$2 \$ \$2 \$ \$3 \$ \$44	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg external State (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each old per pound er Total struct pe "B2" as per of 156 each each each each each each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 44	44 2-43DD-0058, pe 2241 2 1 3 4 5 4 6	1.42 3.30	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ 4,721.91 \$ \$ 4,721.91 \$ \$ 624.49 \$ \$ - \$ \$ 3,901.74 \$ \$ - \$ \$ \$ 1,076.13 \$ \$ \$ - \$ \$ \$	5 - 245,539.30 5 246,503.79 5 27,477.76 5 171,676.35 6	\$2 \$ \$2 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13	\$	- \$	5,602.36 \$	
S1-D81 Assembly and Erection of +7.5 m leg external State (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each old per pound er Total struct pe "B2" as per of 156 each each each each each each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 44 44	44 2-43DD-0058, pe 2241 2 1 3 4 5 4 6	1.42 3.30	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	5 - 5 4,721.91 S S S S S S S S S S S S S S S S S S S	5 - 245,539.30 5 246,503.79 5 27,477.76 5 171,676.35 6 47,349.68	\$2 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13	\$	- \$	5,602.36 \$	
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S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each old per pound er Total struct pe "B2" as per of 156 each each each each each each each each	52 52 sture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 44 44 44 44	44 2-43DD-0058, pe 2241 2 1 3 4 5 4 6	1.42 3.30	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	5 - 5 4,721.91 S S S S S S S S S S S S S S S S S S S	5 - 245,539.30 5 246,503.79 5 27,477.76 6 - 171,676.35 6 47,349.68 6 - 6	\$2 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13	\$	- \$	5,602.36 \$	
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S1-D81 Assembly and Erection of +7.5 m leg extermination of the second section of the second section of the second section of the second section of the sect	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) =	each each per Found Per Total struct pe "B2" as per of 156 each each each each each each each each	52 52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 4	44 2-43DD-0058, per 2241 2 1 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.42 3.30 0.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ 4,721.91 \$ \$ 4,721.91 \$ \$ \$ 624.49 \$ \$ - \$ \$ \$ 3,901.74 \$ \$ - \$ \$ \$ \$ 1,076.13 \$ \$ \$ - \$ \$ \$ \$ 5,602.36 \$ \$ \$ \$ 5,602.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 - 245,539.30 5 246,503.79 5 27,477.76 6 - 5 171,676.35 6 47,349.68 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	\$2 \$ \$2 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13 - - 5,602.36				
S1-D81 Assembly and Erection of +7.5 m leg extermination of the second section of the second section of the second section of the section of	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping all Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation	each each 00 per pound er Total struct pe "B2" as per of 156 each each each each each each each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 47 48 48 48 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 1 2241 2 1 3 4 5 6 6	1.42 3.30 0.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ 4,721.91 \$ \$ 4,721.91 \$ \$ \$ 624.49 \$ \$ 624.49 \$ \$ 6 5 6 5 \$ 6 5 6 5 6 6 5 6 6 5 6 6 6 6	5 - 245,539.30 5 246,503.79 5 27,477.76 5 171,676.35 6 47,349.68 6 5 - 6 5 246,503.79 5 551,982.32	\$2 \$ \$2 \$ \$2 \$ \$3 \$44 \$ \$44 \$ \$44 \$ \$44 \$ \$44 \$ \$5 \$44 \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Examples and Exection of +7.5 m leg external Execution S1-D81 Assembly and Erection of +7.5 m leg external Execution S2 miles are set of the set o	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling	each each 00 per pound er Total struct pe "B2" as per of 156 each each each each each each each each	52 52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 4	76 43DD-0058, per 2241 2 1 3 4 5 4 6	1.42 3.30 0.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ 4,721.91 \$ \$ 4,721.91 \$ \$ \$ 624.49 \$ \$ 624.49 \$ \$ 6 \$ - \$ \$ 6 \$ 1,076.13 \$ \$ 6 \$ - \$ \$ 6 \$ 5,602.36 \$ \$ 6 \$ 5,602.36 \$ \$ 6 \$ 6 \$ 717.26 \$ \$ 6 \$ 717.26 \$ \$ 6 \$ 6 \$ 717.26 \$ \$ 6 \$ 6 \$ 717.26 \$ \$ 6 \$ 6 \$ 717.26 \$ \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6 \$ 6	5 - 245,539.30 5 246,503.79 5 27,477.76 5 - 5 171,676.35 6 47,349.68 6 - 6 - 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$2 \$ \$2 \$ \$2 \$ \$3 \$44 \$5 \$44 \$5 \$44 \$5 \$44 \$5 \$44 \$5 \$5 \$44 \$5 \$5 \$6 \$76 \$5 \$6 \$76 \$5	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (Ib.) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Setup Blocks Assemble Tops Set Leg Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (Ib.) = Site Preparation Haul Setup Blocks	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each output each each per Total struct per "B2" as per output each each each each each each each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 46 47 48 48 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	5 - 5 4,721.91 S S S S S S S S S S S S S S S S S S S	5 - 246,503.79 5 27,477.76 5 171,676.35 6 47,349.68 6 5 246,503.79 5 551,982.32	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each output each each per Total struct per "B2" as per of each each each each each each each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 46 47 48 48 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6	1.42 3.30 0.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ -	5 - 5 4,721.91 S S S S S S S S S S S S S S S S S S S	5 - 246,503.79 5 246,503.79 5 27,477.76 5 171,676.35 6 47,349.68 6 5 246,503.79 5 551,982.32	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Tower Weight With Guys and Ext. (lb) = Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Erection	each each output each each pe "B2" as per output each each each each each each each each	52 52 ture count: twg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 46 44 47 48 48 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 - 5 4,721.91 S S S S S S S S S S S S S S S S S S S	5 - 246,503.79 5 27,477.76 5 171,676.35 6 47,349.68 5 246,503.79 5 551,982.32 5 340,581.37	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Tower Weight With Guys and Ext. (lb) = Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each or Total struct pe "B2" as per or 156 each each each each each each each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 44 46 47 48 48 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92	\$ - \$ 4,721.91 \$ \$ - \$ \$ 624.49 \$ \$ - \$ \$ 5 \$ 624.49 \$ \$ \$ - \$ \$ \$ 5 \$ 602.36 \$ \$ 5,602.36 \$ \$ \$ \$ 5,602.36 \$ \$ \$ \$ 5,602.36 \$ \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ 5,602.36 \$	5 - 245,539.30 5 246,503.79 5 27,477.76 6 - 171,676.35 6 47,349.68 7 - 246,503.79 5 551,982.32 6 5 340,581.37	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Tower Weight With Guys and Ext. (lb) = Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Erection	each each per Fotal struct pe "B2" as per of each each each each each each each each	52 52 ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 46 47 48 48 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 4,721.91 \$ \$ - \$ \$ 624.49 \$ \$ - \$ \$ 5 \$ 624.49 \$ \$ \$ - \$ \$ 5 \$ 624.49 \$ \$ \$ - \$ \$ \$ 5 \$ 602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ \$ 5,602.36 \$ \$ 5,602	5 - 245,539.30 5 246,503.79 5 27,477.76 6 - 5 171,676.35 6 47,349.68 6 - 6 246,503.79 5 551,982.32 6 5 340,581.37 6 - 6 340,581.37	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13 - - 5,602.36 7,262.93 - 717.26 - 4,481.33 - - 2,064.33				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Tower Weight With Guys and Ext. (lb) = Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Erection Lattice Assembly	each each 00 per pound er Total struct pe "B2" as per of each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 46 47 48 48 49 49 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ 4,721.91 \$ \$ \$ - \$ \$ \$ 624.49 \$ \$ \$ - \$ \$ \$ \$ 3,901.74 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$	5	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13 - - 5,602.36 7,262.93				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Tower Weight With Guys and Ext. (lb) = Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Assemble Tops	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Erection Lattice Assembly	each each oo per pound er Total struct pe "B2" as per of each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 46 47 47 48 48 49 49 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ 4,721.91 \$ \$ \$ \$ - \$ \$ \$ \$ 624.49 \$ \$ \$ - \$ \$ \$ \$ \$ 1,076.13 \$ \$ \$ - \$ \$ \$ \$ \$ 5,602.36 \$ \$ \$ \$ 5,602.36 \$ \$ \$ \$ \$ 4,481.33 \$ \$ \$ \$ - \$ \$ \$ \$ \$ 2,064.33 \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	5 - 246,503.79 5 27,477.76 6 171,676.35 6 47,349.68 6 246,503.79 5 551,982.32 6 54,511.96 6 340,581.37 6 156,888.99	\$2 \$ \$52 \$ \$52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13 - - 5,602.36 7,262.93 - 717.26 - 4,481.33 - - 2,064.33				
S1-D81 Assembly and Erection of +7.5 m leg external Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Total S1-D82 Assembly and Erection of +9 m leg external Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	extension for Medium Angle Tower tension for Medium Angle Tower Ty 8964 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping al Cost = \$ 2.50 tension for Medium Angle Tower nsion for Medium Angle Tower Type 10296 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Tower Topping	each each 00 per pound er Total struct pe "B2" as per of each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 44 44 44 44 44 44 44 44 46 47 48 48 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	76 43DD-0058, per 2241 2 1 3 4 5 4 6	1.42 3.30 0.65 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ 4,721.91 \$ \$ \$ - \$ \$ \$ 624.49 \$ \$ \$ - \$ \$ \$ \$ 3,901.74 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$	5 - 246,503.79 5 27,477.76 5 27,477.76 6 - 5 171,676.35 6 47,349.68 6 - 6 246,503.79 5 551,982.32 5 54,511.96 6 340,581.37 6 - 6 5 - 6 5 - 6 5 5 5 5 5 5 5 5 5 5 5	\$2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 4,721.91 5,602.36 - 624.49 - 3,901.74 - 1,076.13 - - 5,602.36 7,262.93				



	NALCOR 350 kV HVdc Line Construction Front 2 (L	ong Range Mountair	<mark>า</mark> ร)				Crew (Cost						Total Unit Cost	
yment				Units		Hours per								Manhours and	
-	Description			Total	Crew No.	unit	Hourly Ra	e	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
121	Assembly and Erection of Medium Angle Tower	71													
	S1-D83 Assembly and Erection of Medium Angle Tower Ty				21	EA			\$	2,570,655.0	5 \$	122,412.15	\$	\$ 122,412.15	\$
	S1-D83 Assembly and Erection of Medium Angle Tower Type														
	Total Tower Weight With Guys and Ext. (lb) = 39636	Total Tower Height(ft) =		Section Weight (lb) =	39636				1055511			,	Ť		
	Site Preparation	Site Preparation	each	21		2.00		675.12 \$	1,350.24 \$	28,355.1		1,350.24			
	Haul	Hauling	each	21	1	25.04		441.04 \$	11,045.23 \$			11,045.23			
	Setup Blocks	Blocking Crew	each	21	3	2.00	•	281.84 \$	563.68 \$			563.68			
	Assemble	Lattice Assembly	each	21		58.29 11.49		183.92 \$ 656.68 \$	69,008.70 \$			69,008.70			
	Erect Tower	Tower Topping	each	21	6				19,033.14 \$	399,695.9		19,033.14			
	haul Insulators and Travellers	Haul Travellers&Glass	each	21	7 8	3.00 2.00		636.64 \$ 444.07 \$	1,909.91 \$ 2,888.13 \$			1,909.91 2,888.13			
	Hang Travellers Dead-end	Hang Travellers	each each	21 21	13	12.00		384.42 \$				2,888.13			
	Deau-end	Deadends	each	21		12.00	φ I	- \$	16,613.10 \$		21 \$	10,013.10			
			each	21			¢	φ φ	- \$		21 \$				
			each	21			ψ (¢	- ф - ¢	- \$	-	21 \$	-			
	Total Cost =	\$ 2.669	per pound				Ψ	Φ	122,412.15 \$			122,412.15			
	Total Cost –	ψ 2.009	I her hourin	I				Φ	122,412.10	2,370,033.0	D	122,412.13			
D84	S1-D84 Assembly and Erection of +4.5 m body extension f	or Medium Angle	Total struct	ture count:	1	EA			\$	24,255.7	6 \$	24,255.76	\$	\$ 24,255.76	\$
D04	S1-D84 Assembly and Erection of +4.5 m body extension for N								4	24,233.7	ų į	27,233.70	Ψ	Ψ 24,233.70	Ψ
	Total Tower Weight With Guys and Ext. (lb) = 9703	Total Tower Height(ft) =	134	Section Weight (lb) =	9703										
	Site Preparation	Site Preparation	each	1	2		\$	675.12 \$	- \$		1 \$	_			
	Haul	Site Preparation Hauling	each	1	1	6.13		441.04 \$	2,703.79 \$						
	Setup Blocks	Hauling Blocking Crew	each	1	3	0.10		281.84 \$	- \$	2,703.7	1 \$	2,703.79			
	Assemble Bottom	Lattice Assembly	each	1	4	14.27		183.92 \$	16,892.81 \$	16,892.8		16,892.81			
	Panel Bottom	Lattice Assembly	each	1	5	17.21	T .	519.02 \$	- \$	10,032.0	1 \$	10,032.01			
	Assemble Tops	Lattice Assembly	each	1	4			183.92 \$	- \$			_			
	Top / Assembly Tower	Tower Topping	each	1	6	2.81		656.68 \$	4.659.17 \$	_		4,659.17			
		·	each	 			-	Ψ	-,-30 Ψ		1 \$,			
			eacn	1			\$	- \$	- \$			-			
			each	1			\$	- \$ - \$	- \$ - \$	-		<u> </u>			
				1 1			\$ \$ \$	- \$ - \$	т.		1 \$				
			each	1 1 1			\$ \$ \$		- \$	=	1 \$	-			
	Total Cost =	\$ 2.500	each each	1 1 1			\$ \$ \$	- \$	- \$ - \$ - \$	-	1 \$ 1 \$ 1 \$	- - -			
	Total Cost =	\$ 2.500	each each each	1 1 1			\$ \$ \$	- \$	- \$ - \$	-	1 \$ 1 \$ 1 \$	-			
D85	Total Cost = S1-D85 Assembly and Erection of +10.5 m body extension	·	each each each		6	EA	\$ \$ \$	- \$	- \$ - \$ - \$	- 24,255.7	1 \$ 1 \$ 1 \$ 6 \$	- - -	\$	\$ 45,250.39	\$
D85		for Medium Angle	each each each per pound Total struct ype "C1" as p	ture count:	4622-43DD-0004	EA	\$ \$ \$	- \$	- \$ - \$ - \$ 24,255.76 \$	- 24,255.7	1 \$ 1 \$ 1 \$ 6 \$	24,255.76	\$	\$ 45,250.39	\$
D85	S1-D85 Assembly and Erection of +10.5 m body extension	for Medium Angle	each each per pound Total struct	ture count:		EA	\$ \$ \$	- \$	- \$ - \$ - \$ 24,255.76 \$	- 24,255.7	1 \$ 1 \$ 1 \$ 6 \$	24,255.76	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for	for Medium Angle Medium Angle Tower Ty	each each each per pound Total struct ype "C1" as p	t ure count: er dwg. 505573-4	4622-43DD-0004 17769			- \$ - \$ \$	- \$ - \$ - \$ 24,255.76 \$	24,255.7 271,502.3	1 \$ 1 \$ 1 \$ 5 \$ \$ \$	24,255.76 45,250.39	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) =	each each each per pound Total struct ype "C1" as p 169 each each	ture count: er dwg. 505573-4 Section Weight (lb) =	4622-43DD-0004 17769 2 1		\$	- \$ - \$ \$ 675.12 \$ 441.04 \$	- \$ - \$ 24,255.76 \$ - \$ 4,951.72 \$	- 24,255.7 271,502.3 - 29,710.3	1 \$ 1 \$ 5 \$ \$ \$ \$ \$ 4 6 \$ \$	24,255.76 45,250.39	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul Setup Blocks	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation	each each each per pound Total struct ype "C1" as p 169 each each each	ture count: er dwg. 505573-4 Section Weight (lb) = 6 6	4622-43DD-0004 17769 2 1	11.23	\$	- \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$	- \$ - \$ 24,255.76 \$ \$ 4,951.72 \$ - \$	24,255.7 271,502.3 - 29,710.3	1 \$ 1 \$ 5 5 \$ \$ \$ 4 6 \$ 5 6 \$ \$	- 24,255.76 45,250.39 - 4,951.72	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling	each each each per pound Total struct ype "C1" as p 169 each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6	4622-43DD-0004 17769 2 1 3 4		\$ \$ \$	- \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$	- \$ - \$ 24,255.76 \$ \$ 4,951.72 \$ - \$ 30,937.52 \$	24,255.7 271,502.3 271,502.3	1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$	24,255.76 45,250.39	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each per pound Total struct ype "C1" as p 169 each each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5	11.23	\$ \$ \$ 1	- \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$	- \$ - \$ 24,255.76 \$ \$ 4,951.72 \$ - \$ 30,937.52 \$ - \$	24,255.7 271,502.3 271,502.3 - 29,710.3 - 185,625.1	1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 5 \$ 5 5 5 5 5 5 5	- 24,255.76 45,250.39 - 4,951.72	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each per pound Total struct ype "C1" as p 169 each each each each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5	11.23 26.13	\$ \$ \$ \$ 1 \$	- \$ - \$ \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$ 183.92 \$	- \$ - \$ 24,255.76 \$ \$ 4,951.72 \$ - \$ 30,937.52 \$ - \$	24,255.7/ 271,502.3 271,502.3 - 29,710.3 - 185,625.1/	1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 5 \$ 5 5 5 5 5 5 5	- 24,255.76 45,250.39 - 4,951.72 - 30,937.52	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each per pound Total struct ype "C1" as p 169 each each each each each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5	11.23	\$ \$ \$ \$ 1 \$	- \$ - \$ \$ 675.12 \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$	- \$ \$ 24,255.76 \$ \$ 4,951.72 \$ \$ 30,937.52 \$ \$ 9,361.15 \$	24,255.7/ 271,502.3 271,502.3 - 29,710.3 - 185,625.1/ - 56,166.9	1 \$ 1 \$ 1 \$ 5 5 \$ \$ \$ 5 5 \$ \$ 5 5 5 5 5	- 24,255.76 45,250.39 - 4,951.72 - 30,937.52	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each per pound Total structype "C1" as p 169 each each each each each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6 6 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5 4 6	11.23 26.13	\$ \$ \$ \$ 1 \$	- \$ - \$ - \$ \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$ 183.92 \$ 656.68 \$ - \$	- \$ \$ 24,255.76 \$ \$ 4,951.72 \$ \$ 30,937.52 \$ \$ 9,361.15 \$ \$	24,255.7 271,502.3 271,502.3 - 29,710.3 - 185,625.1 - 56,166.9	1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$	- 24,255.76 45,250.39 - 4,951.72 - 30,937.52	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each per pound Total struct ype "C1" as p 169 each each each each each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6 6 6 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5 4 6	11.23 26.13	\$ \$ \$ \$ 1 \$	- \$ - \$ - \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$ 183.92 \$ 656.68 \$ - \$	- \$ \$ 24,255.76 \$ \$ 4,951.72 \$ \$ 30,937.52 \$ \$ 9,361.15 \$ \$	24,255.7 271,502.3 271,502.3 - 29,710.3 - 185,625.1 - 56,166.9	1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 5 \$ 5 5 5 5 5 5 5	- 24,255.76 45,250.39 - 4,951.72 - 30,937.52 - 9,361.15	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each per pound Total struct ype "C1" as p 169 each each each each each each each each	ture count: er dwg. 505573-4 Section Weight (lb) = 6 6 6 6 6 6 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5 4 6	11.23 26.13	\$ \$ \$ \$ 1 \$	- \$ - \$ - \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$ 183.92 \$ 656.68 \$ - \$ - \$	- \$ \$ 24,255.76 \$ \$ 4,951.72 \$ \$ 30,937.52 \$ \$ 9,361.15 \$ \$ \$	24,255.7/ 271,502.3 271,502.3 - 29,710.3 - 185,625.1/ - 56,166.9	1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 5 \$ 5 5 5 5 5 5 5	- 24,255.76 45,250.39 - 4,951.72 - 30,937.52 - 9,361.15 - -	\$	\$ 45,250.39	\$
	S1-D85 Assembly and Erection of +10.5 m body extension S1-D85 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 17769 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Medium Angle Tower Ty Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each per pound Total struct ype "C1" as p 169 each each each each each each each each	ture count: eer dwg. 505573-4 Section Weight (lb) = 6 6 6 6 6 6 6 6 6	4622-43DD-0004 17769 2 1 3 4 5 4 6	11.23 26.13	\$ \$ \$ \$ 1 \$	- \$ - \$ - \$ 441.04 \$ 281.84 \$ 183.92 \$ 519.02 \$ 183.92 \$ 656.68 \$ - \$	- \$ \$ 24,255.76 \$ \$ 4,951.72 \$ \$ 30,937.52 \$ \$ 9,361.15 \$ \$	24,255.7 271,502.3 271,502.3 - 29,710.3 - 185,625.1 - 56,166.9	1 \$ 1 \$ 1 \$ 1 \$ 5 5 \$ \$ 5 5 \$ 5 5 5 5 5	- 24,255.76 45,250.39 - 4,951.72 - 30,937.52 - 9,361.15	\$	\$ 45,250.39	\$



I	NALCOR 350 kV HVdc Line Construction Front 2 (Lor	<mark>ng Range Mountain</mark>						Crew Cost							Total Unit Cost	
Į.	December 41 and			Units		Hours per				_	.1-4-4-1	119		NA-4	Manhours and	T-4-LN4 : : :
L	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	St	ubtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D86 Assembly and Erection of +0 m leg extension for Me	dium Anglo Tower	Total etruc	ture count:	0	EA				\$	-		\$ 2,270.02 \$	_	\$ 2,270.02	e e
,	S1-D66 Assembly and Erection of +0 m leg extension for Mediu									Ψ	-		Φ 2,210.02 Φ	-	Φ 2,210.02	Φ
•	Total Tower Weight With Guys and Ext. (lb) = 3632	Total Tower Height(ft) =		Section Weight (lb) =	908	ieg										
•	Site Preparation	Site Preparation	each	0	2		\$	675.12	\$ -	¢	-	0	\$ -			
	Haul	Site Preparation Hauling	each	0	1	0.57	\$	441.04		\$		0				
_	Setup Blocks	Blocking Crew	each	0	3	0.01	\$	281.84		Φ Φ	-	0				
	Assemble Bottom	Lattice Assembly	each	0	4	1.34	\$	1,183.92	\$ 1,580.94	\$		0				
_	Panel Bottom	Lattice Assembly Lattice Erection	each	0	5	1.04	\$		\$ 1,000.5-	\$	-	0				
_	Assemble Tops	Lattice Erection Lattice Assembly	each	0	4		\$,	\$ -	\$	-	0				
	Top / Assembly Tower	Tower Topping	each	0	6	0.26	\$		\$ 436.04	Ψ		0				
F	op // tooding form	rower ropping	each	0		0.20	\$		\$ -	\$		0				
H			each	0			\$		\$ -	\$	-	0				
H			each	0			\$			\$	-	0				
t			each	0			\$		\$ -	\$		0				
L	Total Cost =	\$ 2.500	per pound				Ψ		\$ 2,270.02		-		\$ -			
	S1-D87 Assembly and Erection of +1.5 m leg extension for N S1-D87 Assembly and Erection of +1.5 m leg extension for Med	lium Angle Tower Type	"C1" as per	dwg. 505573-462						\$	-		\$ 3,178.02 \$	-	\$ 3,178.02	\$
г	Total Tower Weight With Guys and Ext. (lb) = 5085	Total Tower Height(ft) =		Section Weight (lb) =	1271		1.0	075 10	•	•	1		Φ			
_	Site Preparation	Site Preparation	each	0	2	0.00	\$	675.12		\$	-	0				
	Haul	Hauling	each	0	1	0.80	\$	441.04		\$	-	0				
_	Setup Blocks	Blocking Crew	each	0	3	1.07	\$	281.84				0				
	Assemble Bottom	Lattice Assembly	each	0	4	1.87	\$	1,183.92			-	0				
_	Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02	·		_	0				
	Assemble Tops	Lattice Assembly	each	0	4	0.07	\$	1,183.92	\$ -	\$	-	0				
F	Top / Assembly Tower	Tower Topping	each	0	6	0.37	\$		\$ 610.45		-	0				
ŀ			each	0			\$		\$ -	\$	-	0				
F			each	0			\$		\$ -	\$	-	0				
F			each each	0			\$		\$	\$	-	0				
L	Total Cost =	\$ 2,500		•			ф			\$	-		_			
	Total Cost =	\$ 2.500	per pound						\$ 3,178.02	Ф	-		\$ -			
	S1-D88 Assembly and Erection of +3 m leg extension for Me S1-D88 Assembly and Erection of +3 m leg extension for Medium			ture count: wg 505573-4622-	44 43DD-0004 per	EA	4			\$	182,634.70		\$ 4,150.79 \$	-	\$ 4,150.79	\$
•	Total Tower Weight With Guys and Ext. (lb) = 6641	Total Tower Height(ft) =	129	Section Weight (lb) =	1660	3										
5	Site Preparation	Site Preparation	each	44	2		\$	675.12	\$ -	\$	-	44	\$ -			
_	Haul	Hauling	each	44	1	1.05	\$	441.04	•	\$	20,358.28	44				
	Setup Blocks	Blocking Crew	each	44	3		\$	281.84		\$	-	44				
	Assemble Bottom	Lattice Assembly	each	44	4	2.44	\$	1,183.92		\$	127,195.03	44				
	Panel Bottom	Lattice Erection	each	44	5		\$	1,519.02	\$ -	\$	-	44	\$ -			
_	Assemble Tops	Lattice Assembly	each	/44	4		\$	1,183.92	\$ -	\$	-	44				
Ī	Top / Assembly Tower	Tower Topping	each	44	6	0.48	\$		\$ 797.30	\$	35,081.39	44				
1			each	44			\$	-	\$ -	\$	-	44				
1			eacn				-		•	T 🛈						
1			each	44			\$	-	\$ -	\$	-	44	5 - I			
Ī				44			\$	<u>-</u>	\$ - \$ -	\$	-					
1			each				\$ \$ \$			т —		44 44 44	\$ -			



NALCOR 350 kV HVdc Line Construction	Tront 2 (Long Nange Mot		Units		Hours per	Crew Cost						Total Unit Cost Manhours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Total Materials
S1-D89 Assembly and Erection of +4.5 m leg ex	xtension for Medium Angle T	Tower Total struc	ture count:	8	EA			\$ 41,208.89	\$	5,151.11	\$ -	\$ 5,151.11	\$
S1-D89 Assembly and Erection of +4.5 m leg exte								¥,200.00		0,101111	•	Ψ 0,101111	*
Total Tower Weight With Guys and Ext. (lb) =	8242 Total Tower Height(fi		Section Weight (lb) =	2061	· ·								
Site Preparation	Site Preparation	each	8	2		\$ 675.12	\$ -	T	8 \$				
Haul	Hauling	each	8	1	1.30	\$ 441.04		\$ 4,593.55	8 \$				
Setup Blocks	Blocking Crew	each	8	3		\$ 281.84		\$ -	8 \$				
Assemble Bottom	Lattice Assembly	each	8	4	3.03	, ,	\$ 3,587.47		8 \$				
Panel Bottom	Lattice Erection	each	8	5		\$ 1,519.02	-	•	8 \$				
Assemble Tops	Lattice Assembly	each	8	4	0.00	\$ 1,183.92	\$ -	7	8 \$				
Top / Assembly Tower	Tower Topping	each	8	6	0.60	\$ 1,656.68	\$ 989.45		8 \$				
		each each	8			\$ - \$ -		\$ - \$ -	8 \$				
		each	0			\$ -	\$ -		8 \$				
		each	8			Y	*	\$ -	8 \$				
Tota	Il Cost = \$	2.500 per pound	<u> </u>			ļΨ	\$ 5,151.11		\$				
. 5.00	, COS.	2.000 po. pouu	ı				Ψ 5,101111	ţ,		3,131111			
S1-D90 Assembly and Erection of +6 m leg exte	ension for Medium Angle To	wer Total struc	ture count:	4	EA			\$ 25,515.12	\$	6,378.78	\$ -	\$ 6,378.78	\$
S1-D90 Assembly and Erection of +6 m leg extens			vg. 505573-4622	-43DD-0004, per I	eg					·			
Total Tower Weight With Guys and Ext. (lb) =	10206 Total Tower Height(fi		Section Weight (lb) =	2552									
Site Preparation	Site Preparation	each	4	2		\$ 675.12		\$ -	4 \$				
Haul	Hauling	each	4	1	1.61	\$ 441.04			4 \$				
Setup Blocks	Blocking Crew	each	4	3		\$ 281.84			4 \$				
Assemble Bottom	Lattice Assembly	each	4	4	3.75	\$ 1,183. 92			4 \$				
Panel Bottom	Lattice Erection	each	4	5		\$ 1,519.02	\$ -	,	4 \$				
Assemble Tops	Lattice Assembly	each	4	4	0.74	\$ 1,183.92		\$ -	4 \$				
Top / Assembly Tower	Tower Topping	each	4	6	0.74	\$ 1,656.68	\$ 1,225.27		4 \$				
		each each	4			\$ -	\$ - \$ -		4 \$				
		each	4				\$ -	,	4 \$				
Tota	Il Cost = \$	2.500 per pound	+ 4			19 -	\$ 6,378.78						
Tota	7 COSt = \$\Psi\$	2.500 per pourid	Į				Ψ 0,570.70	Ψ 20,010.12	Ψ	0,370.70			
S1-D91 Assembly and Erection of +7.5 m leg ex	xtension for Medium Angle T	ower Total struc	ture count:	8	EA			\$ 59,639.08	\$	7,454.89	\$	\$ 7,454.89	\$
S1-D91 Assembly and Erection of +7.5 m leg exte								V 00,000.00		7,101100	•	7,101100	*
Total Tower Weight With Guys and Ext. (lb) =	11928 Total Tower Height(fi		Section Weight (lb) =	2982	J								
Site Preparation	Site Preparation	each	8	2		\$ 675.12			8 \$				
Haul	Hauling	each	8	1	1.88	\$ 441.04	'		8 \$				
Setup Blocks	Blocking Crew	each	8	3		\$ 281.84	'	*	8 \$				
Assemble Bottom	Lattice Assembly	each	8	4	4.39	1 1 1 1	\$ 5,191.92		8 \$				
Panel Bottom	Lattice Erection	each	8	5		7 7,0.00.00	\$ -	,	8 \$				
Assemble Tops	Lattice Assembly	each	8	4	0.00	-	\$ -		8 \$				
Top / Assembly Tower	Tower Topping	each each	8	6	0.86	\$ 1,656.68	\$ 1,431.97 \$ -	*	8 \$				
		each	0			ф <u>-</u>	. *	\$ - \$ -	8 \$				
		each	8				\$ -		8 \$				
Tota	Il Cost = \$	2.500 per pound				<u>-</u>	\$ 7,454.89			7,454.89			
1000	Ψ	2.000 por pound					Ψ 1,101.00	Ψ 00,000.00	Ψ	7,101.00			
S1-D92 Assembly and Erection of +9 m leg exte	ension for Medium Angle To	wer Total struc	ture count:	20	EA			\$ 181,615.09	\$	9,080.75	\$.	\$ 9,080.75	\$
S1-D92 Assembly and Erection of +9 m leg extens	sion for Medium Angle Tower	Type "C1" as per dv						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	- ,	•	, ,,,,,,	•
Total Tower Weight With Guys and Ext. (lb) =	14530 Total Tower Height(fi	ft) = 149	Section Weight (lb) =	3632	-								
Site Preparation	Site Preparation	each	20	2		\$ 675.12	\$ -		20 \$				
Haul	Hauling	each	20	1	2.30	\$ 441.04		\$ 20,244.62	20 \$	1,012.23			
	Blocking Crew	each	20			\$ 281.84		\$ -	20 \$				
	Lattice Assembly	each	20		5.34	\$ 1,183.92	\$ 6,324.25						
Setup Blocks Assemble Bottom		each	20			\$ 1,519.02	*	\$ -	20 \$				
Assemble Bottom Panel Bottom	Lattice Erection		/ 20	4		\$ 1,183.92		\$ -	20 \$				
Assemble Bottom Panel Bottom Assemble Tops	Lattice Erection Lattice Assembly	each							20 \$	1 7// 20			
Assemble Bottom Panel Bottom		each	20	6	1.05	\$ 1,656.68	•						
Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly	each each	20 20	6	1.05	\$ -	\$ -	\$ -	20 \$	-			
Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly	each each each	20 20 20	6	1.05	\$ - \$ -	\$ - \$ -	\$ - \$ -	20 \$ 20 \$				
Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	Lattice Assembly Tower Topping	each each	20 20 20 20	6	1.05	\$ - \$ -	\$ -	\$ - \$ -	20 \$ 20 \$ 20 \$	- - -			



	NALCOR 350 kV HVdc Line Construction F	Front 2 (Long Range Mountain	<mark>า</mark> ร)					Crew Cost						Total Unit Cost	
ent				Units		Hours per								Manhours and	
	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
3	S4 D02 Assembly and Exection of Medium Angle	Tower Type "C2" Bosis Body of	Total struc	turo count:	34	EA				\$ 3,791,198.	17	\$ 111,505.83 \$		· \$ 111,505.83	•
	S1-D93 Assembly and Erection of Medium Angle S1-D93 Assembly and Erection of Medium Angle To					EA				\$ 3,791,190.		р III,505.65 ф	-	\$ 111,505.63	. •
		33817 Total Tower Height(ft) =		Section Weight (lb) =	33817										
ſ	Site Preparation		each	34	2	2.00	¢	675.12	1,350.24	\$ 45,908.3	33 34	1,350.24			
	Haul	Site Preparation	each	34	1		\$	441.04				9,659.22			
L	Setup Blocks	Hauling	each	34	3	2.00	\$	281.84							
	Assemble Bottom	Blocking Crew	each	34	4	49.73		1,183.92							
	Panel Bottom	Lattice Assembly	each	34	5	49.73	φ	1,519.02		\$ 2,001,820					
ŀ	Assemble Tops	Lattice Erection	each	34	4		φ	1,183.92		\$ -		-			
	Erect Tower	Lattice Assembly	each	34	<u>4</u> 6	9.80	\$	1,183.92		Ψ					
ŀ	haul Insulators and Travellers	Tower Topping		34	7	4.00	\$	636.64							
ŀ		Haul Travellers&Glass	each				\$,			2,040.00			
-	Hang Travellers	Hang Travellers	each	34 34	8	2.00	Ф	1,444.07				2,888.13			
ŀ	Dead-end	Deadends	each		13	14.00	\$	1,384.42							
Į	T.4.1	Cost = \$ 2.563	each	34			\$	- 9							
	Total	Cost = \$ 2.563	per pound						111,505.83	\$ 3,791,198.	17	111,505.83			
ļ	S1-D94 Assembly and Erection of +4.5 m body e	extension for Medium Angle	Total struc	ture count:	7	EA				\$ 181,908.4	42	25,986.92 \$	-	\$ 25,986.92	\$
	S1-D94 Assembly and Erection of +4.5 m body exte				622-43DD-0012	_						, .,		, ,,,,,,,,	•
	Total Tower Weight With Guys and Ext. (lb) =	10366 Total Tower Height(ft) =		Section Weight (lb) =	10366										
	Site Preparation	Site Preparation	each	7	2		\$	675.12	-	\$ -	7	-			
l	Haul	Hauling	each	7	1	6.71	\$	441.04	2,960.93	\$ 20,726.4	49 7	2,960.93			
	Setup Blocks	Blocking Crew	each	7	3		\$	281.84							
	Assemble Bottom	Lattice Assembly	each	7	4	15.24	\$	1,183.92							
	Panel Bottom	Lattice Erection	each	7	5	10.0	\$	1.519.02							
	Assemble Tops	Lattice Assembly	each	7	4		\$	1,183.92		\$ -					
ŀ	Top / Assembly Tower	Tower Topping	each	7	6	3.00	\$	1,656.68							
Ì	, , , , , , , , , , , , , , , , , , ,		each	7			\$	- 3		·		·			
ŀ			each	7			\$	- 8		T					
ŀ			each	7			\$			\$ -					
ŀ			each	7			\$		-	•					
L	Total	Cost = \$ 2.507	per pound					9	25,986.92	\$ 181,908.4					
															_
	S1-D95 Assembly and Erection of +10.5 m body		Total struc		0	EA				\$ -		- \$	-	- \$ -	\$
	S1-D95 Assembly and Erection of +10.5 m body ex														
		26024 Total Tower Height(ft) =		Section Weight (lb) =	0										
	Site Preparation	Site Preparation	each	0			\$	675.12		•					
	Haul	Hauling	each	0		0.00	\$	441.04		•					
	Setup Blocks	Blocking Crew	each	0	3		\$	281.84		1		-			
	Assemble Bottom	Lattice Assembly	each	0	4	0.00	\$	1,183.92							
	Panel Bottom	Lattice Erection	each	0	5		\$	1,519.02	-	\$ -					
	Assemble Tops	Lattice Assembly	each	0	4		\$	1,183.92	-	\$ -					
	Top / Assembly Tower	Tower Topping	each	0	6	0.00	\$	1,656.68	-	\$ -	0	-			
ļ			each	0			\$	- 9	-	\$ -	0	-			
			each	0			\$	- 9		\$ -					
			Cacii				-			*					
			each	0			\$	- 9	-	\$ -	01	- I			
				0			\$	- 9							



7	NALCOR 350 kV HVdc Line Construction Fro	ont 2 (Long Range Mountair	<mark>n</mark> s)					Crew Cost						Total Unit Cost	
nt				Units		Hours per								Manhours and	
<u>[</u> r	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
,	S1-D96 Assembly and Erection of +0 m leg extensi	ion for Madium Angle Tower	Total struc	turo count:	16	EA				\$ 42,003.	5 2	\$ 2,625.22 \$		\$ 2,625.22	· · ·
	S1-D96 Assembly and Erection of +0 m leg extension S1-D96 Assembly and Erection of +0 m leg extension									φ 42,00 3 .	32	\$ 2,025.22 \$	-	р 2,023.22	a a
,		1189 Total Tower Height(ft) =		vg. 50557 5-4022- Section Weight (lb) =	43DD-0012, per i 1047	ieg									
Г	Site Preparation		each	3ection Weight (ib) =	2		\$	675.12 \$	- 1	\$ -	16	¢			
_	Haul	Site Preparation	each	16	1	0.68	\$	441.04 \$							
_	Setup Blocks	Hauling	each	16	3	0.00	\$	281.84 \$, , , , ,					
	Assemble Bottom	Blocking Crew	each	16	4	1.54	\$	1,183.92 \$				·			
_	Panel Bottom	Lattice Assembly	each	16	5	1.04	Φ	1,519.02 \$							
_	Assemble Tops	Lattice Erection	each	16			Φ	1,183.92 \$		*					
	Top / Assembly Tower	Lattice Assembly Tower Topping	each	16		0.30	Ф	1,656.68 \$		\$ 8,045.					
ŀ	Top / Assembly Tower	Tower Topping	each	16	0	0.30	φ	- \$		\$					
ŀ			each	16			\$	- \$		\$ -					
ŀ			each	16			\$	- \$							
ŀ			each	16			¢	- \$			_				
L	L Total Co	ost = \$ 2.507	per pound				Ψ	- 5				\$ 2,625.22			
	Total Co	φ 2.007	I per pouria	I				Ψ	2,020.22	Ψ2,000.	02	Ψ 2,020.22			
,	S1-D97 Assembly and Erection of +1.5 m leg exten	sion for Medium Angle Tower	Total struc	ture count:	4	EA				\$ 14,701.	23	\$ 3,675.31 \$		\$ 3,675.31	■ ¢
	S1-D97 Assembly and Erection of +1.5 m leg extension									17,701.	20	φ 5,575.51 φ		ψ 0,010.01	•
`		5864 Total Tower Height(ft) =		Section Weight (lb) =	2-4000-0012, pc 1466	i icg									
Г	Site Preparation	Site Preparation	each	4	2		\$	675.12 \$	-	\$ -	4	\$ -			
_	Haul	Hauling	each	4	1	0.95	\$	441.04 \$							
	Setup Blocks	Blocking Crew	each	4	3	0.00	\$	281.84 \$							
_	Assemble Bottom	Lattice Assembly	each	4	4	2.16	\$	1,183.92 \$							
	Panel Bottom	Lattice Erection	each	4		2.10	\$	1,519.02 \$, , , ,					
	Assemble Tops	Lattice Assembly	each	4	4		\$	1,183.92 \$		т					
	Top / Assembly Tower	Tower Topping	each	4	6	0.42	\$	1,656.68 \$							
ŀ	1	Tower Topping	each	4		0.12	\$	- \$		<u> </u>					
ŀ			each	4			\$	- \$		*					
F			each	4			\$	- \$							
F			each	4			\$	- \$		*					
L	Total Co	ost = \$ 2.507	per pound	· ·				\$	3,675.31			\$ 3,675.31			
		• =====	1	Ų					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	+,		7 3,010.01			
,	S1-D98 Assembly and Erection of +3 m leg extensi	ion for Medium Angle Tower	Total struc	ture count:	28	EA				\$ 143,375.	71	\$ 5,120.56 \$	-	\$ 5,120.56	\$
	S1-D98 Assembly and Erection of +3 m leg extension					leg						, , , , , , , , , , , , , , , , , , , ,			-
		3170 Total Tower Height(ft) =	114	Section Weight (lb) =	2043										
	Site Preparation	Site Preparation	each	28	2		\$	675.12 \$	-	\$ -					
_		Hauling	each	28	1	1.32	\$	441.04 \$	583.43	\$ 16,336.	11 28	\$ 583.43			
5	Haul						\$	281.84 \$			28	\$ -			
Ş	Setup Blocks	Blocking Crew	each	28	3										
ŀ		*	each each	28		3.00	\$	1,183.92 \$	3,556.28	\$ 99,575.	81 28	\$ 3,556.28			
5 1	Setup Blocks	Blocking Crew				3.00	\$	1,183.92 \$ 1,519.02 \$			28	\$ -			
	Setup Blocks Assemble Bottom	Blocking Crew Lattice Assembly	each	28	4		\$ \$ \$			\$ \$	28 28	\$ - \$ -			
\$ - - - -	Setup Blocks Assemble Bottom Panel Bottom	Blocking Crew Lattice Assembly Lattice Erection	each each	28 28	4 5 4	3.00	\$ \$ \$	1,519.02 \$	-	\$ \$	28 28 79 28	\$ - \$ - \$ 980.85			
; ; ;	Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each	28 28 28	4 5 4 6		\$ \$ \$ \$	1,519.02 \$ 1,183.92 \$	980.85	\$ - \$ - \$ 27,463.	28 28 79 28 28	\$ - \$ - \$ 980.85 \$ -			
; ; ;	Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each	28 28 28 28	4 5 4 6		\$ \$ \$ \$	1,519.02 \$ 1,183.92 \$ 1,656.68 \$	980.85	\$ \$ \$ 27,463.	28 28 79 28 28 28	\$ - \$ - \$ 980.85 \$ - \$ -			
; ; ;	Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each	28 28 28 28 28 28 28 28	4 5 4 6		\$ \$ \$ \$	1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$	980.85	\$ \$ 27,463. \$ \$	28 28 79 28 28 28	\$ - \$ - \$ 980.85 \$ - \$ -			
\$ - - - -	Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each	28 28 28 28 28 28 28	4 5 4 6		\$ \$ \$ \$ \$	1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$	980.85	\$	28 28 79 28 28 28 28	\$ - \$ - \$ 980.85 \$ - \$ -			



	Front 2 (Long Range Mountai		Linita			Crew Cost						Total Unit Cost	
Constitution			Units Total	Craw Na	Hours per	Haushy Data	Unit Coat	Subtotal	Units	Linit Coot	Materials	Manhours and Materials	Total Materials
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	UTILS	Unit Cost	Materials	Materials	TOTAL MATERIAIS
S1-D99 Assembly and Erection of +4.5 m leg exte	tension for Medium Angle Tower	Total struct	ture count:	20	EA			\$ 128,166.02		\$ 6,408.30 \$	-	\$ 6,408.30	\$
S1-D99 Assembly and Erection of +4.5 m leg extens				-43DD-0012, pe	r leg		'	•		, , ,		,	
	10225 Total Tower Height(ft) =		Section Weight (lb) =	2556						<u></u>			
Site Preparation	Site Preparation	each	20	2	1.00	\$ 675.12		T	20				
Haul	Hauling	each	20	1	1.66	\$ 441.04		_					
Setup Blocks Assemble Bottom	Blocking Crew	each each	20	<u>3</u>	3.76	\$ 281.84 \$ 1,183.92	\$ - \$ 4,450.63	\$ - \$ 89,012.53	20				
Panel Bottom	Lattice Assembly Lattice Erection	each	20	5	3.70			\$ 69,012.55	20	· · · · · · · · · · · · · · · · · · ·			
Assemble Tops	Lattice Assembly	each	20	4		· · · · · · · · · · · · · · · · · · ·	T	\$ -	20				
Top / Assembly Tower	Tower Topping	each	20	6	0.74	· · · · · · · · · · · · · · · · · · ·	\$ 1,227.52	\$ 24,550.35	20				
		each	20			\$ -	\$ -	\$ -	20				
		each	20					\$ -	20				
		each	20				\$ -		20				
Total (Cost = \$ 2.507	each	20			\$ -	\$ - 6,408.30	\$ - \$ 128,166.02	20	\$ - \$ 6,408.30			
Total C	Cost = \$ 2.507	7 per pound					\$ 0,400.30	Φ 120,100.02		0,400.30			
S1-D100 Assembly and Erection of +6 m leg exte	ension for Medium Angle Tower	Total struct	ture count:	24	EA			\$ 196,278.05		\$ 8,178.25 \$	_	\$ 8,178.25	\$
61-D100 Assembly and Erection of +6 m leg extens								130,210.00		φ 0,170.20 φ		ψ 0,170.20	•
	13049 Total Tower Height(ft) =		Section Weight (lb) =	3262	9								
Site Preparation	Site Preparation	each	24	2		\$ 675.12	Ψ	\$ -	24				
laul	Hauling	each	24	1	2.11	\$ 441.04	\$ 931.82	\$ 22,363.76	24				
etup Blocks	Blocking Crew	each	24	3		\$ 281. 84			24				
ssemble Bottom	Lattice Assembly	each	24	4	4.80	\$ 1,183.92		-					
ranel Bottom Assemble Tops	Lattice Erection	each each	24	<u>5</u> 4		, , , , , , , , , , , , , , , , , , , ,	\$ - \$ -	\$ -	24 24				
op / Assembly Tower	Lattice Assembly Tower Topping	each	24	6	0.95	, , , , , ,	\$ 1,566.55	1		-			
op / Assembly Towel	Tower Topping	each	24	0	0.93			\$ 31,391.29	24				
		each	24					<u> </u>					
		Cacii	24			5 -	\$ -	\$ -	24	\$ -			
		each	24					\$ -	24 24				
		each each	24 24			\$ -	\$ - \$ -	\$ - \$ -		\$ - \$ -			
Total (Cost = \$ 2.507	each	24 24			\$ -	\$ -	\$ - \$ -	24 24	\$ -			
		each each 7 per pound	24			\$ -	\$ - \$ - \$ 8,178.25	\$ - \$ - \$ 196,278.05	24 24	\$ - \$ - \$ 8,178.25			
61-D101 Assembly and Erection of +7.5 m leg ex	xtension for Medium Angle Towe	each each per pound Total struct	24 24 ture count:	24	EA	\$ -	\$ - \$ - \$ 8,178.25	\$ - \$ -	24 24	\$ - \$ -	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg ex S1-D101 Assembly and Erection of +7.5 m leg exter	xtension for Medium Angle Towe ension for Medium Angle Tower Ty	each each 7 per pound er Total struct pe "C2" as per	24 24 24 ture count:	2-43DD-0012, p		\$ -	\$ - \$ - \$ 8,178.25	\$ - \$ - \$ 196,278.05	24 24	\$ - \$ - \$ 8,178.25		\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg ex S1-D101 Assembly and Erection of +7.5 m leg exten Total Tower Weight With Guys and Ext. (lb) =	xtension for Medium Angle Towe	each each per pound Total struct pe "C2" as per	24 24 ture count: r dwg. 505573-462 Section Weight (lb) =	2-43DD-0012, po 3816		\$ -	\$ - \$ - \$ 8,178.25	\$ - \$ - \$ 196,278.05	24 24	\$ - \$ - \$ 8,178.25 \$ 9,565.47 \$		\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg ex S1-D101 Assembly and Erection of +7.5 m leg exter Total Tower Weight With Guys and Ext. (lb) = Site Preparation	xtension for Medium Angle Towe ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) =	each each 7 per pound er Total struct pe "C2" as per 129	24 24 24 ture count:	2-43DD-0012, p		\$ -	\$ - \$ - \$ 8,178.25	\$ - \$ 196,278.05 \$ 229,571.37	24 24	\$ - \$ - \$ 8,178.25 \$ 9,565.47 \$		\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg extends 1-D101 Assembly and Erection of +7.5 m leg extends 1-D101 Assembly and Ext. (lb) = Site Preparation Haul Setup Blocks	ension for Medium Angle Towe ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Stile Preparation	each each per pound er Total struct pe "C2" as per 129 each	24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24	2-43DD-0012, po 3816 2	er leg 2.47	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84	\$ - \$ 8,178.25 \$ 1,089.88 \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ - \$ 26,157.17 \$ -	24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ -		\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg external External Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Ste Preparation Hauling	each each 7 per pound er Total struct pe "C2" as per 129 each each each each	24 24 24 24 24 24 24 24 24 24	2-43DD-0012, po 3816 2 1 3 4	er leg	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31	\$ - \$ 196,278.05 \$ 229,571.37 \$ - \$ 26,157.17 \$ - \$ 159,439.52	24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31		\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg extends S1-D101 Assembly and Erection of +7.5 m leg extends Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	ension for Medium Angle Tower ension for Medium Angle Tower Tyl 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each	24 24 24 24 24 24 24 24 24 24	2-43DD-0012, p 3816 2 1 3 4 5	er leg 2.47	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ - \$ 26,157.17 \$ - \$ 159,439.52 \$ -	24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ -		\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg external External Control of the Cont	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24	2-43DD-0012, p 3816 2 1 3 4 5 4	2.47 5.61	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ -	24 24 24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ -	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg external External Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24	2-43DD-0012, p 3816 2 1 3 4 5	er leg 2.47	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ - \$ 1,832.28	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67	24 24 24 24 24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg external External Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2-43DD-0012, p 3816 2 1 3 4 5 4	2.47 5.61	\$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ -	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ -	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg ex S1-D101 Assembly and Erection of +7.5 m leg exter	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2-43DD-0012, p 3816 2 1 3 4 5 4	2.47 5.61	\$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,1656.68 \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ -	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ -	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg extended from the state of	xtension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2-43DD-0012, p 3816 2 1 3 4 5 4	2.47 5.61	\$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,1656.68 \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ - \$ -	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg extended from the state of	xtension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2-43DD-0012, p 3816 2 1 3 4 5 4	2.47 5.61	\$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,1656.68 \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ - \$ -	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28	-	\$ 9,565.47	\$
S1-D101 Assembly and Erection of +7.5 m leg exterm S1-D101 Assembly and Erection of +7.5 m leg exterm Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total C	xtension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Cost = \$ 2.507	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	22-43DD-0012, pt 3816 2 1 3 4 5 4 6	2.47 5.61 1.11	\$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,1656.68 \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ - \$ -	24 24 24 24 24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28		\$ 9,565.47 \$ 10,918.15	
S1-D101 Assembly and Erection of +7.5 m leg exterm	ension for Medium Angle Tower ension for Medium Angle Tower Type 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower Sion for Medium Angle Tower Type	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2-43DD-0012, po 3816 2 1 3 4 5 4 6	2.47 5.61 1.11	\$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,1656.68 \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37	24 24 24 24 24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ - \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,9565.47			
S1-D101 Assembly and Erection of +7.5 m leg exterm Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Fop / Assembly Tower Total C S1-D102 Assembly and Erection of +9 m leg exters Total Tower Weight With Guys and Ext. (lb) =	ension for Medium Angle Tower ension for Medium Angle Tower Type 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Cost = \$2.507 ension for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Height(ft) =	each each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	2-43DD-0012, pr 3816 2 1 3 4 5 4 6 2 4 4 6	2.47 5.61 1.11	\$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06	24 24 24 24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,0918.15 \$			
S1-D101 Assembly and Erection of +7.5 m leg extension of the second seco	ension for Medium Angle Tower ension for Medium Angle Tower Type 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Height(ft) = Site Preparation	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 24 29 Eture count: lwg. 505573-4622 Section Weight (lb) = 20	2-43DD-0012, po 3816 2 1 3 4 5 4 6 2 4 4 5 4 6	2.47 5.61 1.11	\$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06	24 24 24 24 24 24 24 24 24 24 24 24	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ 9,565.47 \$ 10,918.15 \$			
S1-D101 Assembly and Erection of +7.5 m leg extended to the Indian Section of the Indian Section of the Indian Section of the Indian Section S	ension for Medium Angle Tower ension for Medium Angle Tower Typ 15263 Total Tower Heightl(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Heightl(ft) = Site Preparation Hauling	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 24 29 20 ture count: dwg. 505573-4622 Section Weight (lb) =	2-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2	2.47 5.61 1.11	\$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06	24 24 24 24 24 24 24 24 24 24 24 24 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,432.28 \$ - \$ 1,244.01			
S1-D101 Assembly and Erection of +7.5 m leg extended to the second state of the second	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower sion for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 24 24	2-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1	2.47 5.61 1.11 EA	\$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ - \$ 1,244.01 \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06 \$ - \$ 24,880.11 \$ -	24 24 24 24 24 24 24 24 24 24 24 24 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,432.28 \$ - \$ 1,244.01 \$ -			
S1-D101 Assembly and Erection of +7.5 m leg extermal Extermal Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Total Copy / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extermal Exter	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 24 24	22-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1 3 4	2.47 5.61 1.11	\$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ - \$ 8,178.25 \$ 1,089.88 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 1,244.01 \$ - \$ 7,582.76	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06 \$ - \$ 151,655.25	24 24 24 24 24 24 24 24 24 24 24 24 20 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 1,832.28 \$ - \$ 1,432.28 \$ - \$ 5 - \$ 7,582.76			
S1-D101 Assembly and Erection of +7.5 m leg extermal Extermal Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total (S1-D102 Assembly and Erection of +9 m leg extermal Extermal	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Erection	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 24 20 20 20 20 20	2-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1 3 4 5	2.47 5.61 1.11 EA	\$	\$ - \$ 8,178.25 \$ 1,089.88 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 1,244.01 \$ - \$ 7,582.76 \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06 \$ - \$ 24,880.11 \$ - \$ 151,655.25 \$ -	24 24 24 24 24 24 24 24 24 24 24 20 20 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 10,918.15 \$ \$ - \$ 1,244.01 \$ - \$ 7,582.76 \$ -			
S1-D101 Assembly and Erection of +7.5 m leg extermal Extension of the second se	Attension for Medium Angle Tower Pension for Medium Angle Tower Types Pension for Medium Angle Tower Types Pension for Medium Angle Tower Types Pension for Medium Angle Tower Pension for Medium Angle Tower Pension for Medium Angle Tower Pension for Medium Angle Tower Types Pension for Medium Angle Tower Ty	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 20 20 20 20 20 20	22-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1 3 4	EA leg 2.82 6.40	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,83.92 \$ 1,656.68 \$ - \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ - \$ 1,244.01 \$ - \$ 7,582.76 \$ -	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06 \$ - \$ 151,655.25 \$ - \$ 151,655.25	24 24 24 24 24 24 24 24 24 24 20 20 20 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 10,918.15 \$ \$ - \$ 7,582.76 \$ - \$ 7,582.76			
S1-D101 Assembly and Erection of +7.5 m leg extermal Enter Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Passemble Tops Top / Assembly Tower Total C S1-D102 Assembly and Erection of +9 m leg extermal Enterprise Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	ension for Medium Angle Tower ension for Medium Angle Tower Ty 15263 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping Cost = \$ 2.507 ension for Medium Angle Tower sion for Medium Angle Tower Type 17421 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Erection	each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 ture count: r dwg. 505573-462 Section Weight (lb) = 24 24 24 24 24 24 24 24 24 24 24 24 20 20 20 20 20	22-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1 3 4 5 4	2.47 5.61 1.11 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ 1,183.92 \$ 1,656.68	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ - \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06 \$ - \$ 151,655.25 \$ - \$ 151,655.25	24 24 24 24 24 24 24 24 24 24 24 20 20 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 10,918.15 \$ \$ - \$ 1,244.01 \$ - \$ 7,582.76 \$ - \$ 2,091.39			
S1-D101 Assembly and Erection of +7.5 m leg extermal Enter Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total C S1-D102 Assembly and Erection of +9 m leg extermal Enterprise Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Passemble Tops	Attension for Medium Angle Tower Pension for Medium Angle Tower Types Pension for Medium Angle Tower Types Pension for Medium Angle Tower Types Pension for Medium Angle Tower Pension for Medium Angle Tower Pension for Medium Angle Tower Pension for Medium Angle Tower Types Pension for Medium Angle Tower Ty	each each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	22-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1 3 4 5 4	EA leg 2.82 6.40	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ 1,183.92 \$ 1,656.68 \$ - \$ 1,183.92 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 9,565.47	\$ - \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ 159,439.52 \$ - \$ 43,974.67 \$ - \$ 229,571.37 \$ 218,363.06 \$ - \$ 24,880.11 \$ - \$ 151,655.25 \$ - \$ 41,827.71	24 24 24 24 24 24 24 24 24 24 20 20 20 20 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 9,565.47 \$ 10,918.15 \$ \$ - \$ 1,244.01 \$ - \$ 7,582.76 \$ - \$ 2,091.39 \$ -			
S1-D101 Assembly and Erection of +7.5 m leg extermal Extermal Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total (S1-D102 Assembly and Erection of +9 m leg extermal Extermal	Attension for Medium Angle Tower Pension for Medium Angle Tower Types Pension for Medium Angle Tower Types Pension for Medium Angle Tower Types Pension for Medium Angle Tower Pension for Medium Angle Tower Pension for Medium Angle Tower Pension for Medium Angle Tower Types Pension for Medium Angle Tower Ty	each each each 7 per pound er Total struct pe "C2" as per 129 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	22-43DD-0012, pr 3816 2 1 3 4 5 4 6 20 43DD-0012, per 4355 2 1 3 4 5 4	EA leg 2.82 6.40	\$	\$ - \$ 8,178.25 \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,565.47 \$ 9,565.47	\$ \$ 196,278.05 \$ 229,571.37 \$ 26,157.17 \$ \$ 159,439.52 \$ \$ 43,974.67 \$ \$ 229,571.37 \$ 218,363.06 \$ \$ 24,880.11 \$ \$ 151,655.25 \$ \$ 41,827.71 \$	24 24 24 24 24 24 24 24 24 24 20 20 20 20 20 20 20	\$ - \$ 8,178.25 \$ 9,565.47 \$ \$ 1,089.88 \$ - \$ 6,643.31 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 1,832.28 \$ - \$ 5 - \$ 7,565.47 \$ 10,918.15 \$			



	NALCOR 350 kV HVdc Line Construction Front 2 (I	ong Range Mountair					Crew Cost						Total Unit Cost	
ent				Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Assembly and Erection of Dead-End Tower Typ	ne "D1"												
	S1-D103 Assembly and Erection of Dead-End Tower Type		Total struc	tura aquest.	24	EA			\$ 3,305,320.31	\$	137,721.68	¢	\$ 137,721.68	¢
	S1-D103 Assembly and Erection of Dead-End Tower Type "Dead-End Tower Typ				24	LA			φ 3,303,320.3	Φ	131,121.00	-	φ 131,121.00	Ą
	Total Tower Weight With Guys and Ext. (lb) = 44777	Total Tower Height(ft) =	9. 303373- 4 0 121	Section Weight (lb) =	44777									
	Site Preparation	Site Preparation	each	24	2	2.00	\$ 675.12	\$ 1,350.24	\$ 32,405.88	3 24 \$	1.350.24			
	Haul	Hauling	each	24	1	27.58	\$ 441.04		\$ 291,983.16		12,165.97			
	Setup Blocks	Blocking Crew	each	24	3	2.00	\$ 281.84		\$ 13,528.43		563.68			
	Assemble	Lattice Assembly	each	24	4	65.85	\$ 1,183.92		\$ 1,871,036.52		77,959.85			
		·	each	24			\$ -	\$ -	\$ -	24 \$	-			
			each	24			\$ -	\$ -	\$ -	24 \$	-			
	Erect Tower	Tower Topping	each	24	6	12.98	\$ 1,656.68	\$ 21,501.94	\$ 516,046.53	3 24 \$	21,501.94			
	haul Insulators and Travellers	Haul Travellers&Glass	each	24	7	3.00	\$ 636.64	\$ 1,909.91	\$ 45,837.89	24 \$	1,909.91			
	Hang Travellers	Hang Travellers	each	24	8	2.00	\$ 1,444.07	, , , , , , ,			2,888.13			
	Dead-end Dead-end	Deadends	each	24	13	14.00	\$ 1,384.42	\$ 19,381. <mark>95</mark>	\$ 465,166.68		19,381.95			
			each	24			\$ -	\$,		_			
	Total Cost =	\$ 2.536	per pound					\$ 137,721.68	\$ 3,305,320.3	\$	137,721.68			
						_								
	S1-D104 Assembly and Erection of +4.5 m body extension				3	EA			\$ 85,738.56	\$	28,579.52	\$ -	\$ 28,579.52	\$
	S1-D104 Assembly and Erection of +4.5 m body extension fo		•	•										
ı	Total Tower Weight With Guys and Ext. (lb) = 11464	Total Tower Height(ft) =	136	Section Weight (lb) =	11464	1				1 -1 -				
	Site Preparation	Site Preparation	each	3	2		\$ 675.12		\$ -	3 \$	-			
	Haul	Hauling	each	3	1	7.06	\$ 441.04				3,114.79			
	Setup Blocks	Blocking Crew	each	3	3	40.00	\$ 281.84		\$ -	3 \$	-			
	Assemble Bottom	Lattice Assembly	each	3	4	16.86	\$ 1,183.92	\$ 19,959.69			19,959.69			
	Panel Bottom	Lattice Erection	each	3	5		\$ 1,519.02	-	\$ -	3 \$	-			
	Assemble Tops	Lattice Assembly	each	3	6	3.32	\$ 1,183.92	\$ -	\$ - \$ 16,515.12	3 \$	5,505.04			
										(1 3)	5,505.04			
	Top / Assembly Tower	Tower Topping	each	U	0	3.32	\$ 1,656.68	\$ 5,505.04		2 ¢				
	Top / Assembly Tower	Tower Topping	each	3	0	3.32	\$ 1,656.68 \$ -	\$ -	\$ -	3 \$	-			
	Top / Assembly Tower	Tower Topping	each each	3 3	0	3.32	\$ 1,656.68	\$ - \$ -	\$ - \$ -	3 \$	-			
	Top / Assembly Tower	Tower Topping	each each each	3 3	0	3.32	\$ 1,050.00 \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$	3 \$	-			
			each each each each	3 3 3 3	0	3.32	\$ 1,656.60 \$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	3 \$ 3 \$ 3 \$	- - -			
	Total Cost =		each each each	3 3 3 3	0	3.32	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$	3 \$ 3 \$ 3 \$	-			
	Total Cost =	\$ 2.493	each each each each per pound	3 3 3	3	3.32 EA	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ - \$ 85,738.56	3 \$ 3 \$ 3 \$ 5 \$	28,579.52	\$ -	\$ 55.163.97	I \$
05		\$ 2.493	each each each each per pound	3 3 3 3 3 sture count:	3		\$ - \$ - \$ - \$	\$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 85,738.56	3 \$ 3 \$ 3 \$ 5 \$	- - -	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension	\$ 2.493	each each each each per pound	3 3 3 3 3 sture count:	3		\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ - \$ 85,738.56	3 \$ 3 \$ 3 \$ 5 \$	28,579.52	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension f S1-D105 Assembly and Erection of +10.5 m body extension f	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type	each each each each per pound Total struc "D1" as per	3 3 3 3 3 ture count:	3 2-43DD-0043 22128		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 28,579.52	\$ - \$ - \$ - \$ 85,738.56 \$ 165,491.91	3 \$ 3 \$ 3 \$ 5 \$	28,579.52	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension f S1-D105 Assembly and Erection of +10.5 m body extension f Total Tower Weight With Guys and Ext. (lb.) = 22128	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) =	each each each each per pound Total struc "D1" as per 156	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2-43DD-0043 22128	EA	\$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 28,579.52	\$ - \$ - \$ - \$ 85,738.56 \$ 165,491.91	3 \$ 3 \$ 3 \$ 5 5 \$ \$ \$	28,579.52 55,163.97	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension f S1-D105 Assembly and Erection of +10.5 m body extension f Total Tower Weight With Guys and Ext. (lb) = 22128 Site Preparation	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Site Preparation	each each each each per pound Total struc "D1" as per 156 each	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2-43DD-0043 22128 2	EA	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45 \$ -	3 \$ 3 \$ 5 5 3 \$ 5 3 \$ 5 3 \$ 5 3 \$ 5 5 3 \$ 5 5 5 5	- 28,579.52 55,163.97 - 6,012.15	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension f S1-D105 Assembly and Erection of +10.5 m body extension f Total Tower Weight With Guys and Ext. (Ib) = 22128 Site Preparation Haul Setup Blocks Assemble Bottom	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling	each each each each per pound Total struc "D1" as per 156 each each	ture count: dwg. 505573-462 Section Weight (lib) =	3 2-43DD-0043 22128 2	EA	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ - \$ 6,012.15	\$ - \$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45	3 \$ 3 \$ 3 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 28,579.52 55,163.97	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension S1-D105 Assembly and Erection of +10.5 m body extension f Total Tower Weight With Guys and Ext. (lb) = 22128 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	\$ 2.493 on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each per pound Total struc "D1" as per 156 each each each	ture count: dwg. 505573-462 Section Weight (lb) =	3 2-43DD-0043 22128 2 1 3	EA 13.63	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45 \$ -	3 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 3 \$ 5 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 5	- 28,579.52 55,163.97 - 6,012.15	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Site Preparation Haufing Blocking Crew Lattice Assembly	each each each each per pound Total struc "D1" as per 156 each each each each each	ture count: dwg. 505573-462 Section Weight (lib) =	3 2-43DD-0043 22128 2 1 3 4 5	13.63 32.54	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ - \$ 38,526.04 \$ - \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.44 \$ - \$ 115,578.11 \$ -	3 \$ 3 \$ 3 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 28,579.52 55,163.97 - 6,012.15 - 38,526.04 - -	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension S1-D105 Assembly and Erection of +10.5 m body extension f Total Tower Weight With Guys and Ext. (lb) = 22128 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Sile Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection	each each each each per pound Total struc "D1" as per 156 each each each each each each each	ture count: dwg. 505573-462 Section Weight (lib) =	3 2-43DD-0043 22128 2 1 3 4 5	EA 13.63	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ - \$ 38,526.04 \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45 \$ 115,578.11 \$ - \$ 31,877.35	3 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 28,579.52 55,163.97 - 6,012.15 - 38,526.04	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each per pound Total struc "D1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) =	3 2-43DD-0043 22128 2 1 3 4 5 4 6	13.63 32.54	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ - \$ 38,526.04 \$ - \$ 10,625.78 \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45 \$ 115,578.11 \$ - \$ 31,877.35 \$ -	3 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 28,579.52 55,163.97 - 6,012.15 - 38,526.04 - -	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each per pound Total struc "D1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2-43DD-0043 22128 2 1 3 4 5 4 6	13.63 32.54	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ - \$ 38,526.04 \$ - \$ 10,625.78 \$ - \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45 \$ 115,578.11 \$ - \$ 31,877.35 \$ - \$ 31,877.35	3 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 28,579.52 55,163.97 55,163.97 - 6,012.15 - 38,526.04 - 10,625.78 -	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension	\$ 2.493 on for Dead-End Tower for Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each per pound Total struc "D1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2-43DD-0043 22128 2 1 3 4 5 4 6	13.63 32.54	\$ - \$ - \$ - \$ - \$ - \$ - \$ 441.0 \$ 281.8 \$ 1,183.9 \$ 1,519.0 \$ 1,183.9 \$ 1,656.66	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ - \$ 38,526.04 \$ - \$ 10,625.78 \$ - \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ 18,036.45 \$ 115,578.11 \$ - \$ 31,877.35 \$ - \$ -	3 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- - 28,579.52 55,163.97 55,163.97 - 6,012.15 - 38,526.04 - - 10,625.78 - -	\$ -	\$ 55,163.97	\$
05	Total Cost = S1-D105 Assembly and Erection of +10.5 m body extension	\$ 2.493 on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each each each per pound Total struc "D1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (ib) = 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2-43DD-0043 22128 2 1 3 4 5 4 6	13.63 32.54	\$ - \$ - \$ - \$ - \$ - \$ - \$ 441.0 \$ 281.8 \$ 1,183.9 \$ 1,519.0 \$ 1,183.9 \$ 1,656.66	\$ - \$ - \$ - \$ 28,579.52 \$ 6,012.15 \$ - \$ 38,526.04 \$ - \$ 10,625.78 \$ - \$ - \$ -	\$ - \$ - \$ 85,738.56 \$ 165,491.91 \$ - \$ 18,036.45 \$ 115,578.11 \$ - \$ 31,877.35 \$ - \$ 31,877.35	3 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 28,579.52 55,163.97 55,163.97 - 6,012.15 - 38,526.04 - 10,625.78 -	\$ -	\$ 55,163.97	\$



NALCOR 350 kV HVdc Line Constru	uction Front 2 (Long Range Mounta	ins)				Crew Co	st						Total Unit Cost	
	i i		Units		Hours per								Manhours and	
Description			Total	Crew No.	unit	Hourly Rate	Uni	t Cost	Subtotal	Units	Unit Cost	Materials	Materials T	otal Materials
								_						
S1-D106 Assembly and Erection of +0 m				0	EA			\$	-		2,050.72 \$	-	\$ 2,050.72	i
S1-D106 Assembly and Erection of +0 m leg														
Total Tower Weight With Guys and Ext. (lb)			Section Weight (lb) =	823			- 10 A							
Site Preparation	Site Preparation	each	0	2	0.54		5.12 \$	- \$	_	0				
Haul	Hauling	each	0	1	0.51		1.04 \$	223.50 \$	-	0				
Setup Blocks	Blocking Crew	each	0	3	101		1.84 \$	- \$	-	0				
Assemble Bottom	Lattice Assembly	each	0	4	1.21	,	3.92 \$	1,432.20 \$		0				
Panel Bottom	Lattice Erection	each	0	5			9.02 \$	- \$	-	0				
Assemble Tops	Lattice Assembly	each	0	4			3.92 \$	- \$	-	0				
Top / Assembly Tower	Tower Topping	each	0	6	0.24		6.68 \$	395.01 \$		0				
		each	0			\$	- \$	- \$	-	0				
		each	0			\$	- \$	- \$	-	0	-			
		each	0			\$	- \$	- \$	-	0				
	T. (10)	each	0			\$	- \$	- \$		0				
	Total Cost = \$ 2.493	3 per pound	1				\$	2,050.72 \$	-		-			
S1-D107 Assembly and Erection of +1.5 n	m leg extension for Dead-End Tower		ture count:	0	EA			\$	-		\$ 2,871.01 \$	-	\$ 2,871.01	i
S1-D107 Assembly and Erection of +1.5 m l					;g									
Total Tower Weight With Guys and Ext. (lb)) = 4607 Total Tower Height(ft) =		Section Weight (lb) =	1152										
Site Preparation	Site Preparation	each	0	2			5.12 \$	- \$	-	0				
Haul	Hauling	each	0	1	0.71	· ·	1.04 \$	312.90 \$	-	0				
Setup Blocks	Blocking Crew	each	0	3			1.84 \$	- \$	-	0	-			
Assemble Bottom	Lattice Assembly	each	0	4	1.69		3.92 \$		-	0				
Panel Bottom	Lattice Erection	each	0	5			9.02 \$	- \$	-	0				
Assemble Tops	Lattice Assembly	each	0	4		\$ 1,1		- \$	-	0				
Top / Assembly Tower	Tower Topping	each	0	6	0.33	\$ 1,6	6 .68 \$	55 3.02 \$	<u>-</u>	0				
		each	0			\$	- \$	- \$	=	0	-			
		each	0			\$	- \$	- \$	=	0				
		each	0			\$	- \$	- \$	-	0	-			
		each												
			0			\$	- \$	- \$	-	0	-			
	Total Cost = \$ 2.493	3 per pound				\$	\$	- \$ 2,871.01 \$	-	0				
		3 per pound				\$	\$	2,871.01 \$	-		-			
S1-D108 Assembly and Erection of +3 m	leg extension for Dead-End Tower Type	3 per pound e Total struc	ture count:	40	EA	\$	- \$ \$				-	-	\$ 4,030.67	;
S1-D108 Assembly and Erection of +3 m leg	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D	3 per pound e Total struc 1" as per dwg.	ture count: 505573-4622-43D	D-0043, per leg		1	\$	2,871.01 \$	-		-		\$ 4,030.67 \$	i
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb)	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D" 1	per pound Total struc as per dwg. 131	ture count: 505573-4622-43D Section Weight (lb) =	D-0043, per leg 1617			\$	2,871.01 \$	161,226.97		4,030.67		\$ 4,030.67	3
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D	3 per pound e Total struc 1" as per dwg. 131 each	ture count: 505573-4622-43D Section Weight (lb) = 40	DD-0043, per leg 1617 2		\$ 6	\$ 5.12 \$	2,871.01 \$	- 161,226.97 -	40	4,030.67 \$		\$ 4,030.67	i
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D" 1	per pound Total struc as per dwg. 131 each each	sture count: 505573-4622-43D Section Weight (lb) = 40 40	DD-0043, per leg 1617 2 1		\$ 6 \$ 4	5.12 \$ 1.04 \$	2,871.01 \$ \$ - \$ 439.29 \$	161,226.97	40 3	4,030.67 \$ 6		\$ 4,030.67 \$;
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb) is Site Preparation Haul Setup Blocks	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D" 1	per pound Total struc as per dwg. 131 each each each	sture count: 505573-4622-43D Section Weight (lb) = 40 40 40	DD-0043, per leg 1617 2 1 3	1.00	\$ 6 \$ 4 \$ 2	5.124 \$ 1.04 \$ 1.84 \$	2,871.01 \$ - \$ 439.29 \$ - \$	- 161,226.97 - 17,571.63	40 3	4,030.67 \$ 6 4,030.67 \$ 6 439.29 6 -		\$ 4,030.67 \$	3
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D" 1	Total struc "as per dwg. 131 each each each each	sture count: 505573-4622-43D Section Weight (lb) = 40 40 40 40	DD-0043, per leg 1617 2 1 3 4		\$ 6 \$ 4 \$ 2 \$ 1,1	\$.124 \$ 1.04 \$ 1.84 \$ 3.92 \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$	- 161,226.97 - 17,571.63 - 112,599.51	40 : 40 : 40 : 40 : 40 : 40 : 40 : 40 :	4,030.67 \$ 4,030.67 \$ 5 439.29 5 - 5 2,814.99		\$ 4,030.67 \$,
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew	Total struc as per dwg. 131 each each each each each each	Section Weight (lb) = 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5	5.124 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$	- 161,226.97 - 17,571.63	40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 5		\$ 4,030.67 \$;
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	Per pound Total struc as per dwg. 131 each each each each each each each each	Section Weight (lb) = 40 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5 \$ 1,1	\$ 5.124 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$ - \$	- 161,226.97 - 17,571.63 - 112,599.51 -	40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 5		\$ 4,030.67 \$;
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection	Total struc as per dwg. 131 each each each each each each	settine count: 505573-4622-43D Section Weight (lb) = 40 40 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5 \$ 1,1	5.124 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$	- 161,226.97 - 17,571.63 - 112,599.51	40 40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 5		\$ 4,030.67 \$;
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	Per pound Total struc as per dwg. 131 each each each each each each each each	settine count: 505573-4622-43D Section Weight (lb) = 40 40 40 40 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5 \$ 1,1	\$ 5.124 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$ - \$	- 161,226.97 - 17,571.63 - 112,599.51 -	40 40 40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 5	-	\$ 4,030.67	;
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	Total struc: "as per dwg. 131 each each each each each each each eac	sture count: 505573-4622-43D Section Weight (lb) = 40 40 40 40 40 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5 \$ 1,1	\$ 5.121 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$ 776.40 \$	- 161,226.97 - 17,571.63 - 112,599.51 - - 31,055.83	40 40 40 40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 4,030.67 \$ 439.29		\$ 4,030.67	
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	Total struc: "as per dwg. "as per dwg. 131 each each each each each each each eac	settine count: 505573-4622-43D Section Weight (lb) = 40 40 40 40 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5 \$ 1,1	\$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$ - \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$ 776.40 \$ - \$	- 161,226.97 - 17,571.63 - 112,599.51 - - 31,055.83	40 40 40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 4,030.67 \$ 439.29	-	\$ 4,030.67	;
S1-D108 Assembly and Erection of +3 m lec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	leg extension for Dead-End Tower Type eg extension for Dead-End Tower Type "D' eg extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	Per pound Total struc as per dwg. 131 each each each each each each each each each each each	sture count: 505573-4622-43D Section Weight (lb) = 40 40 40 40 40 40 40 40 40 40	DD-0043, per leg 1617 2 1 3 4 5	1.00	\$ 6 \$ 4 \$ 2 \$ 1,1 \$ 1,5 \$ 1,1	\$ 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$ - \$ - \$ 5 - \$	2,871.01 \$ - \$ 439.29 \$ - \$ 2,814.99 \$ - \$ 776.40 \$ - \$ - \$	- 161,226.97 - 17,571.63 - 112,599.51 - - 31,055.83	40 40 40 40 40 40 40 40 40	4,030.67 \$ 4,030.67 \$ 4,030.67 \$ 439.29	-	\$ 4,030.67	•



Valard Construction LP

NALCOR 350 kV HVdc Line Col	nstruction i font 2 (Long Nange Mountain		l lmita			Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Doompton			Total	OTCW NO.	unit	riodily reacc	Offic Cost	Cubiciai	Office	Offit Cost	Materiale	Wateriale	Total Materials
	+4.5 m leg extension for Dead-End Tower	Total struct		16	EA			\$ 87,838.06	\$	5,489.88	\$	- \$ 5,489.88	\$
	1.5 m leg extension for Dead-End Tower Type "D				g								
Total Tower Weight With Guys and Ex	xt. (lb) = 8809 Total Tower Height(ft) =		Section Weight (lb) =	2202	,		1						
Site Preparation	Site Preparation	each	16			\$ 675.12	-		16 \$	-			
Haul	Hauling	each	16		1.36	\$ 441.04	5 598.32	\$ 9,573.20		598.32			
Setup Blocks	Blocking Crew	each	16			\$ 281.84	-	\$ -	16 \$	_			
Assemble Bottom	Lattice Assembly	each	16		3.24	\$ 1,183.92	3,834.08	\$ 61,345.33		3,834.08			
Panel Bottom	Lattice Erection	each	16			\$ 1,519.02		\$ -		-			
Assemble Tops	Lattice Assembly	each	16			\$ 1,183.92		\$ -	16 \$	-			
Top / Assembly Tower	Tower Topping	each	16		0.64	\$ 1,656.68	1,057.47			1,057.47			
		each	16			- 9		\$ -	16 \$	-			
		each	16			\$ -		\$ -	16 \$	-			
		each	16			\$ - 3			16 \$	-			
		each	16			- \$		T	16 \$				
	Total Cost = \$ 2.493	per pound				9	5,489.88	\$ 87,838.06	\$	5,489.88			
	+6 m leg extension for Dead-End Tower Type			28	EA			\$ 181,839.95	\$	6,494.28	\$	- \$ 6,494.28	\$
	6 m leg extension for Dead-End Tower Type "D1"												
Total Tower Weight With Guys and Ex			Section Weight (lb) =	2605					1				
Site Preparation	Site Preparation	each	28			\$ 675.12		\$ -	28 \$	-			
Haul	Hauling	each	28	1	1.60	\$ 441.04 \$	707.79			707.79			
Setup Blocks	Blocking Crew	each	28			\$ 281.84 \$		\$	28 \$	-			
Assemble Bottom	Lattice Assembly	each	28		3.83	\$ 1,183.92	4,535.55	\$ 126,995.43		4,535.55			
Panel Bottom	Lattice Erection	each	28			\$ 1,519.02	-	\$ -	28 \$	-			
Assemble Tops	Lattice Assembly	each	28			\$ 1,183.92		\$	28 \$	-			
Гор / Assembly Tower	Tower Topping	each	28		0.76	\$ 1,656.68	1,250.94	\$ 35,026.34		1,250.94			
		each	28			\$ - \$	-	\$ -	28 \$	-			
		each	28			\$ - \$		\$ -	28 \$	-			
			28			\$ - \$ \$ - \$		\$ - \$ -	28 \$	-			
		each each each	28 28				- -	\$ - \$ -		-			
	Total Cost = \$ 2.493	each each	28 28				-	\$ - \$ -	28 \$ 28 \$	-			
		each each each per pound	28 28				6,494.28	\$ \$ - \$ 181,839.95	28 \$ 28 \$ 5 \$	6,494.28			
	+7.5 m leg extension for Dead-End Tower	each each each per pound	28 28 ture count:	12	EA		6,494.28	\$ - \$ -	28 \$ 28 \$ 5 \$	-	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D	each each each per pound Total struct 1" as per dwg	28 28 ture count: g. 505573-4622-4	12 13DD-0043, per le			6,494.28	\$ \$ - \$ 181,839.95	28 \$ 28 \$ 5 \$	6,494.28	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D	each each each per pound Total struct 1" as per dwo	28 28 ture count: g. 505573-4622-4 Section Weight (lb) =	12 13DD-0043, per les 3103		- 5	6,494.28	\$ - \$ - \$ 181,839.95 \$ 92,820.24	28 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,494.28	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D	each each each per pound Total struct 1" as per dwg 146 each	28 28 ture count: g. 505573-4622-4 Section Weight (lb) =	12 43DD-0043, per les 3103 2	g	\$ 675.12	6,494.28	\$ - \$ - \$ 181,839.95 \$ 92,820.24	28 \$ 28 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 6,494.28 7,735.02	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) =	each each each per pound Total struct 1" as per dwg 146 each each	28 28 ture count: g. 505573-4622-4 Section Weight (lb) = 12 12	12 13DD-0043, per les 3103 2		\$ - \$ \$ \$ 675.12 \$ \$ 441.04 \$	6 6,494.28 6 6,494.28 6 843.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15	28 \$ 28 \$ 5 \$ \$ 12 \$ 9 12 \$	- 6,494.28 7,735.02	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation	each each each per pound Total struct 1" as per dwg 146 each	28 28 ture count: g. 505573-4622-4 Section Weight (lb) = 12 12 12	12 43DD-0043, per les 3103 2 1	1.91	\$ 675.12 \$ 441.04 \$ \$ 281.84 \$	6,494.28 6,494.28 6 - 843.02 6 - 843.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ -	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 -	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling	each each each per pound Total struct 1" as per dwg 146 each each each each	28 28 28 28 28 2. 505573-4622-4 Section Weight (lb) = 12 12 12 12	12 13DD-0043, per les 3103 2 1 3	g	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$	6,494.28 6,494.28 6 843.02 6 5,402.07	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ - \$ 64,824.84	28 \$ 28 \$ 5 \$	- 6,494.28 7,735.02 - 843.02	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each per pound Total struct 1" as per dwg 146 each each each each each	28 28 28 28 28 2. 505573-4622-4 Section Weight (lb) = 12 12 12 12	12 43DD-0043, per les 3103 2 1 3 4 5	1.91	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$	6,494.28 6,494.28 6 843.02 6 5,402.07	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ -	28 \$ 28 \$ 5 \$ \$ 12 \$ 9 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 -	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each per pound Total struct 1" as per dwg 146 each each each each each each each	28 28 28 28 28 28 20 3. 505573-4622-4 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	12 43DD-0043, per les 3103 2 1 3 4 5 4	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$	6 6,494.28 6 6,494.28 6 843.02 6 5,402.07 6 5	\$ - \$ 181,839.95 \$ 92,820.2 4 \$ - \$ 10,116.15 \$ - \$ 64,824.84 \$ -	28 \$ 28 \$ 5 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 -	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each per pound Total struct 1" as per dwg 146 each each each each each each each	28 28 28 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	12 33DD-0043, per les 3103 2 1 3 4 5 4 6	1.91	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$	6 6,494.28 6 6,494.28 6 843.02 6 5,402.07	\$ - \$ 181,839.95 \$ 92,820.2 4 \$ - \$ 10,116.19 \$ - \$ 64,824.84	28 \$ 28 \$ 5 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each per pound Total struct 1" as per dwg 146 each each each each each each each	28 28 28 28 28 28 20 3. 505573-4622-4 3. Section Weight (lb) = 12 12 12 12 12 12 12 12	12 33DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.2 4 \$ - \$ 10,116.15 \$ - \$ 64,824.84 \$ -	28 \$ 28 \$ 5 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 -	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each per pound Total struct 1" as per dwg 146 each each each each each each each	28 28 28 28 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ -	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - 1,489.93	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 20 3. 505573-4622-4 5ection Weight (lb) = 12 12 12 12 12 12 12 12	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ -	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - -	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ -	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 -	\$	- \$ 7,735.02	\$
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ -	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - - 7,735.02			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of -	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	6 - 6,494.28 6 6,494.28 6 843.02 6 5,402.07 6 - 1,489.93 6 6 7,735.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ -	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - -		- \$ 7,735.02 - \$ 10,263.21	
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 S1-D112 Assembly and Erection of +9	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type on leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type "D1"	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	6 - 6,494.28 6 6,494.28 6 843.02 6 5,402.07 6 - 1,489.93 6 6 7,735.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ - \$ 92,820.24	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - - 7,735.02			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of -	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type on leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type "D1"	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	6 - 6,494.28 6 6,494.28 6 843.02 6 5,402.07 6 - 1,489.93 6 6 7,735.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ - \$ 92,820.24	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - - 7,735.02			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type on leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type on m leg extension for Dead-End Tower Type "D1"	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6	1.91 4.56 0.90	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ 92,820.24 \$ 10,116.15 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ -	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - - 7,735.02			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex Site Preparation	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type 9 m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) =	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6 0 DD-0043, per les 4117	1.91 4.56	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - 9 \$ 1,656.68 \$ - 9 \$ 1,656.68 \$ 1,6	6,494.28 6,494.28 6,494.28 6 843.02 6 - 6 5,402.07 6 - 6 1,489.93 6 - 6 7,735.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ 92,820.24 \$ 10,116.15 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ -	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - 1,489.93 - - 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Existe Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Existe Preparation Haul	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6 0 DD-0043, per leg 4117 2	1.91 4.56 0.90	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$	6 6,494.28 6 6,494.28 6 843.02 6 5,402.07 6 - 6 1,489.93 6 - 7,735.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ 92,820.24 \$ 10,116.15 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ -	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - 1,489.93 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Es Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Es Site Preparation Haul Setup Blocks	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type on leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 3DD-0043, per leg 3103 2 1 3 4 5 4 6 0 DD-0043, per leg 4117 2 1	1.91 4.56 0.90	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	6 6,494.28 6 6,494.28 6 843.02 6 5,402.07 6 - 6 1,489.93 6 - 7,735.02	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ -	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - - 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Exite Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of -9 Total Tower Weight With Guys and Exite Preparation Haul Setup Blocks Assemble Bottom	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type 9 m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 3DD-0043, per leg 3103 2 1 3 4 5 4 6 0 DD-0043, per leg 4117 2 1 3 4	1.91 4.56 0.90	\$ 675.12 \$ 441.04 \$ \$ 281.84 \$ \$ 441.04 \$ \$ 281.84 \$ \$ \$ 441.04 \$ \$ \$ \$ 675.12 \$ \$ \$ 441.04 \$ \$ \$ 281.84 \$ \$ \$ 281.84 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ -	28 \$ 28 \$ 5	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - - 1,489.93 - - 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type m leg extension for Dead-End Tower Type m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Erection	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 33DD-0043, per leg 3103 2 1 3 4 5 4 6 DD-0043, per leg 4117 2 1 3 4 5	1.91 4.56 0.90	\$ 675.12 \$ 441.04 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28 6,494.28	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.15 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ - \$ 92,820.24 \$ - \$ - \$ - \$ -	28 \$ 28 \$ 55 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 1,489.93 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type 9 m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 33DD-0043, per leg 3103 2 1 3 4 5 4 6 DD-0043, per leg 4117 2 1 3 4 5 4	1.91 4.56 0.90 EA	\$ 675.12 \$ 441.04 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,	6,494.28 6,494.	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ - \$ 92,820.24	28 \$ 28 \$ 56 \$ \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	6,494.28 7,735.02 - 843.02 - 5,402.07 1,489.93 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type m leg extension for Dead-End Tower Type m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Erection	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 13DD-0043, per les 3103 2 1 3 4 5 4 6 DD-0043, per les 4117 2 1 3 4 5 4	1.91 4.56 0.90	\$ 675.12 \$ 441.04 \$ \$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,556.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ \$ 1,656.68 \$ \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ 1,6	6,494.28 6,494.	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ 28 \$ 55 \$ \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	6,494.28 7,735.02 - 843.02 - 5,402.07 - 1,489.93 7,735.02 10,263.21			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type 9 m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6 DD-0043, per leg 4117 2 1 3 4 5 4 6	1.91 4.56 0.90 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ \$. \$. \$ \$.	6,494.28 6,494.	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ 64,824.84 \$ - \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ 28 \$ 55 \$ \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 6,494.28 7,735.02 - 843.02 - 5,402.07 - 1,489.93			
S1-D111 Assembly and Erection of +7 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D112 Assembly and Erection of +9 Total Tower Weight With Guys and Ex Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Bottom Panel Bottom Assemble Tops	+7.5 m leg extension for Dead-End Tower 7.5 m leg extension for Dead-End Tower Type "D xt. (lb) = 12411 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.493 +9 m leg extension for Dead-End Tower Type 9 m leg extension for Dead-End Tower Type "D1" xt. (lb) = 16468 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each per pound Total struct 1" as per dwg 146 each each each each each each each each	28 28 28 28 28 28 28 28 28 28 28 28 28 2	12 43DD-0043, per les 3103 2 1 3 4 5 4 6 DD-0043, per leg 4117 2 1 3 4 5 4 6	1.91 4.56 0.90 EA	\$ 675.12 \$ 441.04 \$ \$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,556.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ \$ 1,656.68 \$ \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ 1,6	6,494.28 6,494.	\$ - \$ 181,839.95 \$ 92,820.24 \$ - \$ 10,116.19 \$ - \$ 64,824.84 \$ - \$ 17,879.20 \$ - \$ 92,820.24 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ 28 \$ 55 \$ \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	6,494.28 7,735.02 - 843.02 - 5,402.07 - 1,489.93 7,735.02 10,263.21			



	NALCOR 350 kV HVdc Line Construction Front 2 (L	ong Range Mountair	<mark>า</mark> ร)				Crew Cos	t					Total Unit Cost	
ayment				Units		Hours per							Manhours and	
-	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subto	otal Units	Unit Cost	Materials	Materials	Total Materials
						•	•						•	
H24	Assembly and Erection of Dead-End Tower Type													
::D113	S1-D113 Assembly and Erection of Dead-End Tower Type	"D2" Basic Body as	Total struc	ture count:	15	EA			\$ 2,04	19,089.93	\$ 136,606.00	\$ -	\$ 136,606.00	\$
	S1-D113 Assembly and Erection of Dead-End Tower Type "D2	2" Basic Body as per dw	g. 505573-46	22-43DD-0045		-								
	Total Tower Weight With Guys and Ext. (lb) = 41363	Total Tower Height(ft) =	106	Section Weight (lb) =	41363							_		
	Site Preparation	Site Preparation	each	15		2.00	\$ 67	5.12 \$ 1,35	0.24 \$ 2	20,253.67 15				
	Haul	Hauling	each	15		25.78				70,550.16				
	Setup Blocks	Blocking Crew	each	15		2.00	\$ 28			8,455.27 15				
	Assemble	Lattice Assembly	each	15		60.83	\$ 1,18		6.09 \$ 1,08	30,241.35				
		Lattice Erection	each	15			\$ 1,51	9.02 \$	- \$	- 15	\$ -			
		Lattice Assembly	each	15			\$ 1,18		- \$	- 15				
	Erect Tower	Tower Topping	each	15		15.99	\$ 1,65			97,340.05 15				
	haul Insulators and Travellers	Haul Travellers&Glass	each	15		4.00				38,198.24 15		ļ		
	Hang Travellers	Hang Travellers	each	15		2.00	\$ 1,44	, , , , , ,		13,322.01 15	· · · · · · · · · · · · · · · · · · ·	ļ		
	Dead-end	Deadends	each	15		14.00	\$ 1,38			00,729.18 15		ļ		
			each	15			\$	7	- \$	- 15		l		
	Total Cost =	\$ 2.703	per pound	1				\$ 136,60	6.00 \$ 2,04	19,089.93	\$ 136,606.00			
											• ••••	•	A A A A A B A B B B B B B B B B B	
	S1-D114 Assembly and Erection of +4.5 m body extension		Total struc		1	EA			\$ 3	39,176.39	\$ 39,176.39	\$ -	\$ 39,176.39	\$
	S1-D114 Assembly and Erection of +4.5 m body extension for													
	Total Tower Weight With Guys and Ext. (lb) = 15695	Total Tower Height(ft) =	121	Section Weight (lb) =	15695		7.5					T		
	Site Preparation	Site Preparation	each	1	2			J	- \$	- 1	•			
	Haul	Hauling	each	1	1	9.78				4,314.20 1		ļ		
	Setup Blocks	Blocking Crew	each	1	3	20.00			- \$	- 1		ļ		
	Assemble Bottom	Lattice Assembly	each	1	4	23.08	\$ 1,18	T = 1,0	5.58 \$ 2	27,325.58 1		ļ		
	Panel Bottom	Lattice Erection	each	1	5		\$ 1,51		- \$	- 1		<u> </u>		
	Assemble Tops	Lattice Assembly	each	1	6	4.55	\$ 1,18		- \$	- 1	•	<u> </u>		
	Top / Assembly Tower	Tower Topping	each each	1	6	4.55	\$ 1,65		- \$	7,536.61 1		ł		
			each	1			9		:		•	ł		
			each	1			Φ	_	- \$ - \$	- 1		ł		
				1			4 3	- D						
							0	0				†		
	Total Coat -	¢ 2.406	each	1			\$	- \$	- \$	- 1	\$ -	İ		
	Total Cost =	\$ 2.496	per pound	1			\$	Ψ	- \$	- 1				
D115		·	per pound	lure count:	0	FA	\$	Ψ	- \$ 6.39 \$ 3	- 1 39,176.39	\$ - \$ 39,176.39	 ¢	¢ -	• ¢
	S1-D115 Assembly and Erection of +10.5 m body extension	n for Dead-End Tower	per pound		0	EA	S	Ψ	- \$	- 1 39,176.39	\$ -	\$ -	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for	n for Dead-End Tower or Dead-End Tower Type	per pound Total structure: "D2" as per	dwg. 505573-462	2-43DD-0045	EA	\$	Ψ	- \$ 6.39 \$ 3	- 1 39,176.39	\$ - \$ 39,176.39	<u> </u>	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb.) = 16061	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) =	per pound Total struc "D2" as per 140	dwg. 505573-462 Section Weight (lb) =	2-43DD-0045 16061		\$ 67	\$ 39,17	- \$ 6.39 \$ 3	- 1 39,176.39 -	\$ - \$ 39,176.39 \$ -	 \$ -	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation	per pound Total structure: "D2" as per	dwg. 505573-462	2-43DD-0045 16061			\$ 39,17	- \$ 6.39 \$ 3 \$	- 1 39,176.39 - 0	\$ - \$ 39,176.39 \$ -	 \$ -	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling	per pound Total struc "D2" as per 140 each each	dwg. 505573-462 Section Weight (lb) =	2-43DD-0045 16061 2 1		\$ 44	\$ 39,17 5.12 \$ 1.04 \$	- \$ 6.39 \$ 3 \$ - \$ - \$	- 1 39,176.39 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ -	 \$ -	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	per pound Total struc "D2" as per 140 each each each	dwg. 505573-462 Section Weight (lb) =	2-43DD-0045 16061 2		\$ 44 \$ 28	\$ 39,17 5.12 \$ 1.04 \$ 1.84 \$	- \$ 6.39 \$ 3 \$ - \$ - \$ - \$	- 1 89,176.39 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ -	\$ -	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	Total structure: "D2" as per 140 each each each each	dwg. 505573-462 Section Weight (lb) = 0 0 0	2-43DD-0045 16061 2 1		\$ 44 \$ 28 \$ 1,18	\$ 39,17 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ -	\$ -	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total structure "D2" as per 140 each each each each each	dwg. 505573-462 Section Weight (lb) = 0 0 0 0	2-43DD-0045 16061 2 1 3 4		\$ 44 \$ 28 \$ 1,18 \$ 1,51	\$ 39,17 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total structure: "D2" as per 140 each each each each	dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0	2-43DD-0045 16061 2 1 3 4 5		\$ 44 \$ 28 \$ 1,18 \$ 1,51 \$ 1,18	5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	per pound Total struc: "D2" as per 140 each each each each each each	dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0	2-43DD-0045 16061 2 1 3 4 5		\$ 44 \$ 28 \$ 1,18 \$ 1,51	5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total struc "D2" as per 140 each each each each each each each	dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0	2-43DD-0045 16061 2 1 3 4 5 4 6		\$ 44 \$ 28 \$ 1,18 \$ 1,51 \$ 1,18	\$ 39,17 5.12 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$ - \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total struc: "D2" as per 140 each each each each each each each each	dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0 0	2-43DD-0045 16061 2 1 3 4 5 4 6		\$ 44 \$ 28 \$ 1,18 \$ 1,51 \$ 1,18	\$ 39,17 \$ 39,17 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$ - \$ - \$ - \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ -	\$
	S1-D115 Assembly and Erection of +10.5 m body extension S1-D115 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 16061 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	n for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total struc "D2" as per 140 each each each each each each each	dwg. 505573-462 Section Weight (lib) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2-43DD-0045 16061 2 1 3 4 5 4 6		\$ 44 \$ 28 \$ 1,18 \$ 1,51 \$ 1,18	\$ 39,17 \$ 39,17 \$ 1.04 \$ 1.84 \$ 3.92 \$ 9.02 \$ 3.92 \$ 6.68 \$ - \$ - \$ - \$	- \$ 6.39 \$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 39,176.39 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	\$ - \$ 39,176.39 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	-	\$ -	\$



NALCOR 350 kV HVdc Line Cons	truction Front 2 (Long Range Mountai	<mark>n</mark> s)					Crew Cost							Total Unit Cost	
t l			7	Units		Hours per									Manhours and	
Description				Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtota	Units	S	Unit Cost	Materials	Materials	Total Materials
C4 D44C Assembly and Freetien of .0	un law autamaian fa	n Dood End Tower Time	Total atrus	turo count	16	EA				\$ 73.	63.22	\$	4,610.20 \$		\$ 4,610.20	•
S1-D116 Assembly and Erection of +0 S1-D116 Assembly and Erection of +0 m						EA				D 13,	03.22	Ф	4,010.20 \$	-	\$ 4,010.20	a a
Total Tower Weight With Guys and Ext. (Total Tower Type DZ		Section Weight (lb) =	1847											
	ID)= 1300		each	Section Weight (ib) =	2		Φ.	C7E 10	\$ -	Φ.	<u> </u>	16 \$				
Site Preparation Haul		Site Preparation	each	16	1	1.15	\$	675.12 441.04	т	Φ ο		16 \$	507.69			
Setup Blocks		Hauling	each	16	3	1.10	\$	281.84		: -		16 \$	-			
Assemble Bottom		Blocking Crew	each	16	4	2.72	\$		\$ 3,215.62	Ψ		16 \$	3,215.62			
Panel Bottom		Lattice Assembly	each	16	5	2.72	φ			\$ 31,		16 \$	3,213.02			
Assemble Tops		Lattice Erection	each	16	4		φ		\$ -	\$		16 \$	<u>-</u>			
Top / Assembly Tower		Lattice Assembly	each	16	6	0.54	Φ		\$ 886.89	Ψ		16 \$	886.89			
Top / Assembly Tower		Tower Topping	each	16	0	0.54	\$		\$ -	\$ 14,		16 \$	-			
			each	16			\$		<u>'</u>	\$		16 \$	-			
			each	16			\$		\$ -		-	16 \$	-			
			each	16			\$		\$ -			16 \$	<u>-</u>			
	Total Cost =	\$ 2496	each per pound				Ψ		\$ 4,610.20		63.22	\$	4,610.20			
	Total Gost =	ψ 2.490	l bei bouild	1					4,010.20	Ψ 13,	00.22	φ	4,010.20			
S1-D117 Assembly and Erection of +1.	E m log sytension	for Dood End Tower	Total struct	turo count:	20	EA				\$ 122.	38.71	\$	6,146.94 \$		\$ 6,146.94	e e
S1-D117 Assembly and Erection of +1.5										122,	30.71	Ф	0,140.54 \$	•	Φ 0,140.94	a a
Total Tower Weight With Guys and Ext. (•	Total Tower Height(ft) =		g. 505575-4622-45 Section Weight (lb) =	2463	y										
Site Preparation	10)- 9000	• ,	each	20	2403		\$	675.12	\$ -	\$	- 1 2	20 \$	-			
Haul		Site Preparation	each	20	1	1.53	\$	441.04		T		20 \$	676.92			
Setup Blocks		Hauling Blocking Crew	each	20	3	1.00	\$	281.84		ф 15,		20 \$	-			
Assemble Bottom		Blocking Crew Lattice Assembly	each	20	4	3.62	\$	1,183.92		Φ c 95		20 \$	4,287.49			
Panel Bottom		Lattice Assembly Lattice Erection	each	20	5	3.02	\$		\$ 4,207.49			20 \$	4,207.49			
Assemble Tops		Lattice Erection Lattice Assembly	each	20	4		\$.,	7	\$		20 \$	-			
Top / Assembly Tower			each	20	6	0.71	Φ		\$ 1,182.52			20 \$	1,182.52			
Top / Assembly Tower		Tower Topping	each	20	0	0.71	Φ		\$ 1,102.32	\$ 25,		20 \$	-			
			each	20			Φ			\$		20 \$	-			
			each	20			φ			\$		20 \$	-			
			each	20			\$			*						
	Total Cost =	\$ 2 496					Ψ				_ '	วกเร				
			`I ner nound							\$ 122		20 \$	6 146 94			
	*	Ψ =::00	per pound						\$ 6,146.94	•	38.71	20 \$	6,146.94			
S1-D118 Assembly and Frection of ±3		·			8	FA	1		\$ 6,146.94	\$ 122,	38.71	\$	6,146.94		\$ 789279	s
	m leg extension for	or Dead-End Tower Type	Total struct	ture count:	8 D-0045 per leg	EA	7		\$ 6,146.94	\$ 122,				-	\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m	m leg extension for n leg extension for De	or Dead-End Tower Type	Total struct	ture count:		EA	1		\$ 6,146.94	\$ 122,	38.71	\$	6,146.94	-	\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (m leg extension for n leg extension for De	or Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) =	• Total struct " as per dwg.	ture count:	3162	EA	\$	675.12	\$ 6,146.94	\$ 122,	38.71 42.29	\$ \$	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation	m leg extension for n leg extension for De	or Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) =	Total structure as per dwg.	ture count:	3162		\$		\$ 6,146.94 \$ -	\$ 122, \$ 63 ,	38.71 42.29	\$ \$ 8 \$	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul	m leg extension for n leg extension for De	or Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling	Total structure as per dwg.	ture count:	3162 2			441.04	\$ 6,146.94 \$ - \$ 869.17	\$ 122, \$ 63 ,	38.71 42.29	\$ \$ 8 \$ 8 \$	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation	m leg extension for n leg extension for De	or Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	Total struct " as per dwg. 116 each each	ture count: 505573-4622-43D Section Weight (lb) =	3162 2 1	1.97		441.04 281.84	\$ 6,146.94 \$ - \$ 869.17 \$ -	\$ 122, \$ 63, \$ \$ 6, \$ \$ 6,	38.71 42.29 - 53.39	\$ \$ 8 8 8 8 8	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom	m leg extension for n leg extension for De	ead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	Total struct as per dwg. 116 each each each	section Weight (lb) = 8 8	3162 2 1 3			441.04 281.84 1,183.92	\$ 6,146.94 \$ - \$ 869.17 \$ - \$ 5,505.23	\$ 122, \$ 63, \$ \$ 6, \$ \$ 6,	- 53.39 - 41.82	\$ 8 8 8 8 8 8 8	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	m leg extension for n leg extension for De	ead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	e Total struct as per dwg. 116 each each each each	section Weight (lb) = 8 8 8 8	3162 2 1 3 4	1.97		441.04 281.84 1,183.92 1,519.02	\$ 6,146.94 \$ - \$ 869.17 \$ - \$ 5,505.23 \$ -	\$ 122, \$ 63, \$ \$ 6, \$ \$ 44,	- 53.39 - 41.82	\$ \$ 8 8 8 8 8	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	m leg extension for n leg extension for De	pr Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	a Total struct as per dwg. 116 each each each each each each each	section Weight (lb) = 8 8 8 8 8 8	3162 2 1 3 4 5	1.97		441.04 281.84 1,183.92 1,519.02 1,183.92	\$ 6,146.94 \$ - \$ 869.17 \$ - \$ 5,505.23 \$ - \$ -	\$ 122, \$ 63, \$ 5, \$ 6, \$ 44,	38.71 42.29 - 53.39 - 41.82 - -	\$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$	6,146.94 7,892.79 \$	-	\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	m leg extension for n leg extension for De	ead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total struct as per dwg. 116 each each each each each each each each	section Weight (lb) = 8 8 8 8 8 8 8 8	3162 2 1 3 4 5	1.97		441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,146.94 \$ - \$ 869.17 \$ 5,505.23 \$ - \$ 1,518.38	\$ 122, \$ 63, \$ 5, \$ 6, \$ 44, \$ 5, \$ 12,	38.71 42.29 - 53.39 - 41.82 - - 47.08	\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6,146.94 7,892.79 \$	-	\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	m leg extension for n leg extension for De	pr Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total struct as per dwg. 116 each each each each each each each each	section Weight (lb) = 8 8 8 8 8 8 8 8 8	3162 2 1 3 4 5	1.97		441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ - \$ 869.17 \$ 5,505.23 \$ - \$ 1,518.38 \$ -	\$ 122, \$ 63, \$ 5, \$ 6, \$ 44, \$ 5, \$ 12,	- - 53.39 - 41.82 - 47.08	\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6,146.94 7,892.79 \$		\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	m leg extension for n leg extension for De	pr Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total struct as per dwg. 116 each each each each each each each each	section Weight (lb) = 8 8 8 8 8 8 8 8	3162 2 1 3 4 5	1.97		441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,146.94 \$ - \$ 869.17 \$ 5,505.23 \$ - \$ 1,518.38 \$ - \$ -	\$ 122, \$ 63, \$ 5, \$ 6, \$ 44, \$ 5, \$ 12, \$ 5,	53.39 - 41.82 - 47.08	8 \$ \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8 \$ 8	6,146.94 7,892.79 \$	-	\$ 7,892.79	\$
S1-D118 Assembly and Erection of +3 m Total Tower Weight With Guys and Ext. (Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	m leg extension for n leg extension for De	pr Dead-End Tower Type ead-End Tower Type "D2 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total struct as per dwg. 116 each each each each each each each each	Section Weight (lb) = 8 8 8 8 8 8 8 8 8 8	3162 2 1 3 4 5	1.97		441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 6,146.94 \$ - \$ 869.17 \$ 5,505.23 \$ - \$ 1,518.38 \$ - \$ - \$ -	\$ 122, \$ 63, \$ 5, \$ 6, \$ 44, \$ 5, \$ 12,		\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6,146.94 7,892.79 \$	-	\$ 7,892.79	\$



	NALCOR 350 kV HVdc Line Construction Front 2	2 (Long Range Mounta						Crew Cost						Total Unit Cost	
nt	D			Units		Hours per	r			0.14.4.1	,			Manhours and	T
	Description			Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
)	C1 D110 Accomply and Fraction of . 4 F m log sytansis	on for Dood End Tower	Total strue	ture count:	4	EA				\$ 36,909	12	\$ 9,227.28 \$		\$ 9,227.28	■ ¢
	S1-D119 Assembly and Erection of +4.5 m leg extension									\$ 30,909	13	\$ 9,221.20 \$	-	5 9,221.20	Þ
	Total Tower Weight With Guys and Ext. (lb) = 14786			9. 303373-4022-4 Section Weight (lb) =	3697	J									
ſ	Site Preparation	Site Preparation	each	4			\$	675.12 \$	<u>-</u>	\$	4	¢			
	Haul	Site Preparation Hauling	each	4		2.30	\$	441.04 \$		T					
	Setup Blocks	Blocking Crew	each	4		2.50	ų ¢	281.84 \$		\$ 4,004					
	Assemble Bottom	Lattice Assembly	each	4	ů.	5.44	Ψ	1.183.92 \$		Ψ					
ŀ	Panel Bottom	Lattice Assembly Lattice Erection	each	4		3.44	Ψ	1,519.02 \$	-,	\$ 23,744					
ŀ	Assemble Tops		each	4			ψ ¢	1,183.92 \$		\$					
ŀ	Top / Assembly Tower	Lattice Assembly Tower Topping	each	4		1.07	Φ	1,656.68 \$		<u> </u>					
ŀ	Top / Assembly Tower	Tower Topping	each	4		1.07	\$	- \$		\$ 7,100		·			
ŀ			each	4			\$	- \$		\$					
			each	4			φ								
			each	4			φ	- \$		*					
Į	Total Cost =	\$ 2.49	6 per pound				Φ	- 5		7		\$ 9,227.28			
	Total Cost –	Φ 2.49	o I per pourid	I				Ф	9,221.20	Φ 30,909	13	9,221.20			
	C4 D420 Accombly and Frantism of C m law systemation	for Dood Find Tower Tim	- Total atrus	tura counti	8	EA				\$ 97,437	45	\$ 12,179.68 \$		\$ 12,179.68	· ·
	S1-D120 Assembly and Erection of +6 m leg extension S1-D120 Assembly and Erection of +6 m leg extension for	r Dood End Tower Type "D	e Total Struc	E05572 4622 42		EA				91,431	45	р 12,179.00 р	-	р 12,179.00	a
	Total Tower Weight With Guys and Ext. (lb) = 19518			Section Weight (lb) =	4879										
ſ	Site Preparation		each	Section Weight (ib) =			•	67E 10 0		¢	1 0	<u>e</u>			
	Haul	Site Preparation		<u> </u>		3.04	\$	675.12 \$ 441.0 4 \$		\$ 10.720					
		Hauling	each	8		3.04	\$	111111	1,01112						
	Setup Blocks	Blocking Crew	each	8	·	7.40	\$	281.84 \$							
	Assemble Bottom	Lattice Assembly	each	8		7.18	\$	1,183.92 \$							
	Panel Bottom	Lattice Erection	each	Ū			\$	1,519.02 \$		T					
	Assemble Tops	Lattice Assembly	each	8		4.44	2	1,183.92 \$		·					
ŀ	Top / Assembly Tower	Tower Topping	each	8		1.41	\$	1,656.68 \$							
ŀ			each	8			\$	- \$		*	8				
ŀ			each	8			\$	- \$		\$					
ŀ			each	8			\$	- \$		\$		*			
L	T-4-I O4	Φ 0.40	each	8			\$	- \$	-	•	8				
	Total Cost =	\$ 2.49	6 per pound					\$	12,179.68	\$ 97,437	45	\$ 12,179.68			
	04.044		T-1-1-1-1		0	EA				\$		\$ 14 126 39 \$		* 44400.00	•
	S1-D121 Assembly and Erection of +7.5 m leg extension			ture count:						>		\$ 14,126.39 \$	-	\$ 14,126.39	\$
	S1-D121 Assembly and Erection of +7.5 m leg extension 1														
Γ	Total Tower Weight With Guys and Ext. (lb) = 22637	0 ()	131	Section Weight (lb) =	5659 2		0	675 404 C	, I	¢	^	¢			
	Site Preparation Haul	Site Preparation	each	0		2.52	\$	675.12 \$			0				
		Hauling	each	0		3.53	\$	441.04 \$							
	Setup Blocks	Blocking Crew	each	0		0.00	\$	281.84 \$		\$					
	Assemble Bottom	Lattice Assembly	each	0		8.32	\$	1,183.92 \$	0,000.10		0				
	Panel Bottom	Lattice Erection	each	0			\$	1,519.02 \$		\$		•			
	Assemble Tops	Lattice Assembly	each	0		4.04	\$	1,183.92 \$		\$					
r	Top / Assembly Tower	Tower Topping	each	0		1.64	\$	1,656.68 \$		•	0				
J			each	0			\$	- \$		\$					
			each	0			\$	- \$		\$					
							\$	- \$	-	\$. 0	\$ -			
			each	0			Ψ			•					
	Total Cost =	\$ 2.49	each each 6 per pound	0			\$	- \$	-	\$. 0				



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- \$ 14,270.85 \$



Payment	
Item	

NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	is)			Crew Cost						Total Unit Cost	
	Units		Hours per							Manhours and	
Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials

V::D122 S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type Total structure count:

S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg

Total Tower Weight With Guys and Ext. (lb) =	22869	Total Tower Height(ft) =	= 135	Section Weight (lb) =	5717	•					
Site Preparation		Site Preparation	each	4	2		\$ 675.12	\$ -	\$ -	4 \$, -
Haul		Hauling	each	4	1	3.56	\$ 441.04	\$ 1,571.54	\$ 6,286.17	4 \$	1,571.54
Setup Blocks		Blocking Crew	each	4	3		\$ 281.84	\$ -	\$ -	4 \$	· -
Assemble Bottom		Lattice Assembly	each	4	4	8.41	\$ 1,183.92	\$ 9,953.93	\$ 39,815.74	4 \$	9,953.93
Panel Bottom		Lattice Erection	each	4	5		\$ 1,519.02	\$ 	\$ -	4 \$	-
Assemble Tops		Lattice Assembly	each	4	4		\$ 1,183.92	\$ -	\$ <u>-</u>	4 \$, -
Top / Assembly Tower		Tower Topping	each	4	6	1.66	\$ 1,656.68	\$ 2,745.37	\$ 10,981.49	4 \$	2,745.37
			each	4			\$ -	\$ -	\$ -	4 \$, -
			each	4			\$ -	\$ -	\$ -	4 \$	j -
			each	4			\$ -	\$ -	\$ -	4 \$, -
			each	4			\$ -	\$ 4	\$ -	4 \$, -
Tota	al Cost =	\$ 2.	.496 per pound					\$ 14,270.85	\$ 57,083.40	9	14,270.85





Ī	NALCOR 350 kV HVdc Line Construction Front 2 (L	ong Range Mountair						Crew Cost							Total Unit Cost	
nt				Units		Hours per			1						Manhours and	
l	Description			Total	Crew No.	unit	Ho	urly Rate	Unit Cost		Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Assembly and Erection of Dead-End Tower Type	ω "F1"														
	S1-D123 Assembly and Erection of Dead-End Tower Type		Total struc	turo count:	15	EA				\$	2,431,028.06	\$	162,068.54	¢	\$ 162,068.54	e e
	S1-D123 Assembly and Erection of Dead-End Tower Type "E1				13	LA				Ψ	2,431,020.00	Ψ	102,000.54	Ψ -	φ 102,000.54	Ψ
•	Total Tower Weight With Guys and Ext. (lb) = 55056	Total Tower Height(ft) =	121	Section Weight (lb) =	55056											
[Site Preparation	Site Preparation	each	15		2.00	\$	675.12	\$ 1.35	0.24 \$	20,253.67	15 \$	1.350.24			
<u> </u>	Haul	Hauling	each	15	1	31.02	\$	441.04	\$ 13,68		205,204.01	15 \$	13,680.27			
_	Setup Blocks	Blocking Crew	each	15		2.00	\$	281.84		3.68 \$	8,455.27	15 \$	563.68			
	Assemble	Lattice Assembly	each	15		80.97	\$	1,183.92	\$ 95,85		1,437,846.03		95,856.40			
ľ		Lattice Erection	each	15			\$	1,519.02	-	- \$	-	15 \$	-			
-		Lattice Assembly	each	15			\$	1,183.92	\$	- \$		15 \$	-			
Ī	Erect Tower	Tower Topping	each	15		15.96	\$	1,656.68	\$ 26,43	7.95 \$	396,569.20	15 \$	26,437.95			
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	15	7	3.00	\$	636.64	\$ 1,90	9.91 \$	28,648.68		1,909.91			
Ī	Hang Travellers	Hang Travellers	each	15	8	2.00	\$	1,444.07	\$ 2,88	8.13 \$	43,322.01	15 \$	2,888.13			
Ţ	Dead-end	Deadends	each	15	13	14.00	\$	1,384.42	\$ 19,38	1.95 \$	290,729.18	15 \$	19,381.95			
ľ		•	each	15			\$	-	\$	- \$	-	15 \$	-			
_	Total Cost =	\$ 2.504	per pound			•			\$ 162,06	8.54 \$	2,431,028.06	\$	162,068.54			
				•												
4 :	S1-D124 Assembly and Erection of +4.5 m body extension	for Dead-End Tower	Total struc	ture count:	4	EA				\$	156,594.32	\$	39,148.58	\$ -	\$ 39,148.58	\$
,	S1-D124 Assembly and Erection of +4.5 m body extension for	: Dead-End Tower Type "	E1" as per d	wg. 505573-4622	-43DD-0007	•										
	Total Tower Weight With Guys and Ext. (lb) = 15851	Total Tower Height(ft) =	136	Section Weight (lb) =	15851											
;	Site Preparation	Site Preparation	each	4	2		\$	675.1 2		- \$	-	4 \$	-			
_	Haul	Hauling	each	4	1	8.93	\$	441.04		8.70 \$	15,754.79		3,938.70			
,	Setup Blocks	Blocking Crew	each	4	3		\$	281. 84	\$	- \$		4 \$	-			
1	Assemble Bottom	Lattice Assembly	each	4	4	23.31	\$	1,183.92	\$ 27,59	8.11 \$	110,392.43	4 \$	27,598.11			
_	Panel Bottom	Lattice Erection	each	4	5		\$	1,5 19.02	\$	- \$		4 \$	-			
/	Assemble Tops	Lattice Assembly	each	4	4		\$	1,183.92	\$	- \$	-	4 \$	-			
-	Top / Assembly Tower	Tower Topping	each	4	6	4.59	\$	1,656.68	\$ 7,61	1.77 \$	30,447.10	4 \$	7,611.77			
			each	4			\$	-	Ψ	- \$	-	4 \$	-			
			each	4			\$			- \$	-	4 \$	-			
J			each	4			\$	-	\$	- \$	_	4 \$	-			
L			each	4												
			Caon	4			\$	_		- \$	-	4 \$	-			
	Total Cost =	\$ 2.470	per pound	4			\$	-	\$ 39,14		156,594.32		- 39,148.58			
_			per pound				\$	-		8.58 \$	156,594.32	\$	39,148.58			
	S1-D125 Assembly and Erection of +10.5 m body extension	on for Dead-End Tower	per pound Total struc	ture count:	0	EA	\$	7						\$ -	\$ 74,921.34	\$
	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for	on for Dead-End Tower or Dead-End Tower Type	per pound Total struc "E1" as per	ture count: dwg. 505573-462	2-43DD-0007	EA	\$	7		8.58 \$	156,594.32	\$	39,148.58	\$ -	\$ 74,921.34	\$
;	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (Ib.) = 30336	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) =	per pound Total struc "E1" as per 156	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336	EA	\$	7		8.58 \$	156,594.32 -	\$ \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
:	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation	Total struc "E1" as per 156 each	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336 2		\$	675.12	\$ 39,14	8.58 \$ \$	156,594.32 - -	\$ \$ 0 \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
; []	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling	Total struc "E1" as per 156 each each	ture count: dwg. 505573-462. Section Weight (lb) =	2-43DD-0007 30336 2 1		\$ \$	675:12 441.04	\$ 39,14 \$ \$ \$ 7,53	8.58 \$ \$ - \$ 7.76 \$	156,594.32 - - -	\$ \$ 0 \$ 0 \$	39,148.58 74,921.34 - -	\$ -	\$ 74,921.34	\$
; []	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	Total struc "E1" as per 156 each each each	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336 2 1 3	17.09	\$ \$	675.12 441.04 281.84	\$ 39,14 \$ \$ \$ 7,53	8.58 \$ \$ - \$ 7.76 \$ - \$	156,594.32 - - - - -	\$ \$ 0 \$ 0 \$ 0 \$	39,148.58 74,921.34 - - -	\$ -	\$ 74,921.34	\$
; []	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	Total struc "E1" as per 156 each each each each	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336 2 1 3 4		\$ \$	675.12 441.04 281.84 1,183.92	\$ 39,14 \$ \$ 7,53 \$ \$ 52,81	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$	156,594.32 - - - - - - -	\$	39,148.58 74,921.34 - - - -	\$ -	\$ 74,921.34	\$
; ; ;	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total struc "E1" as per 156 each each each each each	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336 2 1 3 4 5	17.09	\$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02	\$ 39,14 \$ \$ 7,53 \$ \$ 52,81	- \$ 7.76 \$ - \$ 6.41 \$	156,594.32 - - - - - -	\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
; 	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	Total struc "E1" as per of 156 each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336 2 1 3 4 5	17.09 44.61	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02 1,183.92	\$ 39,14 \$ 7,53 \$ 52,81 \$ \$	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$ - \$ - \$	156,594.32 - - - - - - -	\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total struc "E1" as per 156 each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) =	2-43DD-0007 30336 2 1 3 4 5	17.09	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 39,14 \$ 7,53 \$ 52,81 \$ \$ 14,56	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$ - \$ 7.18 \$		\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total struc "E1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0	2-43DD-0007 30336 2 1 3 4 5 4 6	17.09 44.61	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 39,14 \$ 7,53 \$ 52,81 \$ 54,56	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$ - \$ 7.18 \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total struc "E1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2-43DD-0007 30336 2 1 3 4 5 4 6	17.09 44.61	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 39,14 \$ 7,53 \$ 52,81 \$ 54,56 \$ 14,56	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$ - \$ 7.18 \$ - \$		\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total struc "E1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0	2-43DD-0007 30336 2 1 3 4 5 4 6	17.09 44.61	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 39,14 \$ 7,53 \$ 52,81 \$ 54,56 \$ 14,56	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$ - \$ 7.18 \$ - \$ - \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$
	S1-D125 Assembly and Erection of +10.5 m body extension S1-D125 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 30336 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	on for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping	per pound Total struc "E1" as per 156 each each each each each each each each	ture count: dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0	2-43DD-0007 30336 2 1 3 4 5 4 6	17.09 44.61	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	675.12 441.04 281.84 1,183.92 1,519.02 1,183.92 1,656.68	\$ 39,14 \$ 7,53 \$ 52,81 \$ 54,56 \$ 14,56	8.58 \$ - \$ 7.76 \$ - \$ 6.41 \$ - \$ - \$ 7.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	39,148.58 74,921.34	\$ -	\$ 74,921.34	\$



N	ALCOR 350 kV HVdc Line Construction	n Front 2 (Long Range Mount	<mark>ain</mark> s)				Crew Cost						Total Unit Cost	
nt				Units		Hours per							Manhours and	
De	escription			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	D426 Assembly and Freetien of 10 m less	wtonoion for Dood End Tower Tv	- Total atrus	tura aquesti	8	EA			\$ 38,190	20	\$ 4.773.79		¢ 477270	•
	 -D126 Assembly and Erection of +0 m leg e -D126 Assembly and Erection of +0 m leg external ext					EA			\$ 38,190	.28	\$ 4,773.79	-	\$ 4,773.79	Þ
3	Total Tower Weight With Guys and Ext. (lb) =	ension for Dead-End Tower Type 1 7732 Total Tower Height(ft) =		Section Weight (lb) =	1933									
C:			each	Section Weight (Ib) =	1933		ф C7E 4	2 \$ -		1 0	I &			
	e Preparation iul	Site Preparation	each	8		1.09	\$ 675.1 \$ 441.0		\$ 3.842		\$ - \$ 480.29			
	tup Blocks	Hauling	each	8	3	1.09	\$ 281.8		\$ 3,042		\$ 400.29			
	semble Bottom	Blocking Crew	each	8	4	2.84	\$ 1,183.9		7		\$ 3,365.32			
	nel Bottom	Lattice Assembly	each	8	5	2.04	\$ 1,519.0				\$ 3,303.32			
	semble Tops	Lattice Erection Lattice Assembly	each	8	4		\$ 1,183.9				\$ -			
	p / Assembly Tower	Lattice Assembly Tower Topping	each	8		0.56	\$ 1,656.6		Ψ		\$ 928.18			
10	p / Assembly Tower	Tower Topping	each	8	0	0.50	\$ 1,050.0				\$ 920.10			
-			each	8			\$ -	-			\$ -			
-			each	8			\$				\$ -			
\vdash			each	8			\$ -	\$ -		- 8	,			
<u> </u>	Tot	al Cost = \$ 2.4	70 per pound	,			<u> </u>	\$ 4,773.79			\$ 4,773.79			
	100	-	po. poulu	1				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 23,100		1,1.0110			
' S1	-D127 Assembly and Erection of +1.5 m leg	extension for Dead-End Tower	Total struc	ture count:	4	EA			\$ 25,460	.19	\$ 6,365.05		\$ 6,365.05	\$
	-D127 Assembly and Erection of +1.5 m leg ex				3DD-0007 per led				20,100		0,000.00		• 0,000.00	•
Ŭ	Total Tower Weight With Guys and Ext. (lb) =	10309 Total Tower Height(ft) =		Section Weight (lb) =	2577	9								
Si	e Preparation	Site Preparation	each	4	2		\$ 675.1	2 \$ -	\$	- 4	\$ -			
Ha		Hauling	each	4	1	1.45	\$ 441.0		7		\$ 640.38			
	tup Blocks	Blocking Crew	each	4	3	1110	\$ 281.8		\$		\$ -			
	semble Bottom	Lattice Assembly	each	4	4	3.79	\$ 1,183.9		\$ 17.948		\$ 4.487.09			
	inel Bottom	Lattice Erection	each	4	5	71,7	\$ 1.519.0				\$ -			
	semble Tops	Lattice Assembly	each	4	4		\$ 1,183.9	2 \$ -	\$		\$ -			
	p / Assembly Tower	Tower Topping	each	4	6	0.75	\$ 1,656.6	8 \$ 1,237.57	\$ 4,950		\$ 1,237.57			
	,		each	4			\$ -	\$ -		- 4	\$ -			
			each	4			\$ -	\$ -	\$	- 4	\$ -			
			each	4			\$ -	\$ -	\$	- 4	\$ -			
			each	4			\$ -	\$ -	\$	- 4	\$ -			
	Tot	al Cost = \$ 2.4	70 per pound	1				\$ 6,365.05	\$ 25,460	.19	\$ 6,365.05			
				•				,			<u> </u>			
S1	-D128 Assembly and Erection of +3 m leg e	xtension for Dead-End Tower Ty	pe Total struc	ture count:	0	EA			\$	-	\$ 8,374.20	<u>-</u>	\$ 8,374.20	\$
S	-D128 Assembly and Erection of +3 m leg exte	ension for Dead-End Tower Type "l	E1" as per dwg.	505573-4622-43										
	Total Tower Weight With Guys and Ext. (lb) =	13563 Total Tower Height(ft) =	131	Section Weight (lb) =	3391									
	e Preparation	Site Preparation	each		2		\$ 675.1				\$ -			
	iul	Hauling	each	0		1.91	\$ 441.0				\$ -			
	tup Blocks	Blocking Crew	each	0			\$ 281.8		*		\$ -			
	semble Bottom	Lattice Assembly	each	0		4.99	\$ 1,183.9		· · · · · · · · · · · · · · · · · · ·		\$ -			
	nel Bottom	Lattice Erection	each	0			\$ 1,519.0				\$ -			
	semble Tops	Lattice Assembly	each	0	_	0.00	\$ 1,183.9				\$ -			
To	p / Assembly Tower	Tower Topping	each	0		0.98	\$ 1,656.6				\$ -			
1			each	0			\$ -	· ·		- 0	\$ -			
<u> </u>			each	0			\$ -				\$ - \$ -			
							- \$	- \$	\$	- 1 0	-			
			each				7							
		al Cost = \$ 2.4	each each 70 per pound	0			\$ -	\$ -	\$		\$ -			



VILOUT OUT IT VALLING CONSTITU	uction Front 2 (Long Range Mountai		Units		Houre per	Crew Cost						Total Unit Cost Manhours and	
Description			Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Total Material
61-D129 Assembly and Erection of +4.5 n	m leg extension for Dead-End Tower	Total struct	ture count:	20	EA		\$	203,610.73	\$	10,180.54	\$	- \$ 10,180.54	\$
61-D129 Assembly and Erection of +4.5 ml							4	203,010.73	Ψ	10,100.34	V	Ψ 10,100.34	•
Total Tower Weight With Guys and Ext. (lb)			Section Weight (lb) =	4122	9								
Site Preparation	Site Preparation	each	20			\$ 675.12	\$ - \$	_	20 \$	_			
Haul	Hauling	each	20		2.32	\$ 441.04	·		20 \$				
Setup Blocks	Blocking Crew	each	20			\$ 281.84	\$ - \$		20 \$				
Assemble Bottom	Lattice Assembly	each	20		6.06		\$ 7,176.85 \$		20 \$				
Panel Bottom	Lattice Assembly Lattice Erection	each	20	5	0.00	\$ 1,519.02	\$ - \$		20 \$				
ssemble Tops	Lattice Assembly	each	20			. ,	\$ - \$		20 \$				
op / Assembly Tower	Tower Topping	each	20		1.19		\$ 1,979.43 \$		20 \$				
,		each	20			\$ -	\$ - \$	-	20 \$				
		each	20			\$ -	\$ - \$		20 \$				
		each	20			\$ -	\$ - \$		20 \$				
		each	20			\$ -	\$ - \$		20 \$				
	Total Cost = \$ 2.470	per pound					\$ 10,180.54 \$	203,610.73					
			•										
S1-D130 Assembly and Erection of +6 m l	leg extension for Dead-End Tower Type	Total struct	ture count:	16	EA		\$	200,175.02	\$	12,510.94	\$	- \$ 12,510.94	\$
1-D130 Assembly and Erection of +6 m leg				DD-0007, per leg	-								
Total Tower Weight With Guys and Ext. (lb)			Section Weight (lb) =	5066									
ite Preparation	Site Preparation	each	16	2		\$ 675.12	\$ - \$		16 \$				
laul	Hauling	each	16	1	2.85	\$ 441.04	\$ 1,258.71 \$	20,139.40	16 \$	1,258.71			
etup Blocks	Blocking Crew	each	16			\$ 281.84	\$ - \$	_	16 \$	-			
ssemble Bottom	Lattice Assembly	each	16	4	7.45	\$ 1,183.92	\$ 8,819.69 \$	141,115.00	16 \$	8,819.69			
anel Bottom	Lattice Erection	each	16	5		\$ 1,519.02	\$ - \$		16 \$				
ssemble Tops	Lattice Assembly	each	16	4		\$ 1,183.92	\$ - \$		16 \$				
op / Assembly Tower	Tower Topping	each	16	6	1.47	\$ 1,656.68	\$ 2,432.54 \$	38,920.62	16 \$				
		each	16			\$ -	\$ - \$	-	16 \$				
		each	16			Φ.	A						
		eacn	10	<u>/</u>		\$ -	\$ - \$	-	16 \$				
		each	16			\$ -	\$ - \$ \$ - \$		16 \$ 16 \$				
							\$ - \$ \$ - \$	-	16 \$ 16 \$	-			
	Total Cost = \$ 2.470	each	16 16				\$ - \$	-	16 \$ 16 \$	=			
	·	each each) per pound	16 16				\$ - \$ \$ - \$ \$ 12,510.94	200,175.02	16 \$ 16 \$ \$	- - 12,510.94			
S1-D131 Assembly and Erection of +7.5 n	m leg extension for Dead-End Tower	each each per pound Total struct	16 16 ture count:	12	EA		\$ - \$ \$ - \$	200,175.02	16 \$ 16 \$ \$	- - 12,510.94	\$	- \$ 14,521.46	\$
31-D131 Assembly and Erection of +7.5 m I	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "I	each each per pound Total struct as per dwg	16 16 ture count: g. 505573-4622-4	12 3DD-0007, per lea			\$ - \$ \$ - \$ \$ 12,510.94	200,175.02	16 \$ 16 \$ \$	- - 12,510.94	\$	- \$ 14,521.46	\$
G1-D131 Assembly and Erection of +7.5 m l Total Tower Weight With Guys and Ext. (lb)	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) =	each each per pound Total struct 1" as per dwg 146	ture count: g. 505573-4622-4 Section Weight (lb) =	12 3DD-0007, per le 5880		\$ -	\$ - \$ \$ - \$ \$ 12,510.94 \$	200,175.02 174,257.46	16 \$ 16 \$ \$	- 12,510.94 14,521.46	\$	- \$ 14,521.46	\$
61-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) : Site Preparation	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation	each each per pound Total struct E1" as per dwg 146 each	ture count: g. 505573-4622-4 Section Weight (lb) =	12 3DD-0007, per le 5880 2	g	\$ 675.12	\$ - \$ \$ - \$ \$ 12,510.94 \$ \$ \$ - \$	200,175.02 174,257.46	16 \$ \$ \$ \$ \$	- 12,510.94 14,521.46	\$	- \$ 14,521.46	\$
61-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) : Site Preparation Haul	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling	each each per pound Total struct E1" as per dwg 146 each each	ture count: g. 505573-4622-4 Section Weight (lb) =	12 3DD-0007, per le 5880 2		\$ 675.12 \$ 441.04	\$ - \$ \$ - \$ \$ 12,510.94 \$ \$ \$ - \$ \$ 1,460.99 \$	200,175.02 174,257.46 177,531.87	16 \$ \$ \$ \$ \$ \$ 12 \$ \$ 12 \$	- 12,510.94 14,521.46 - 1,460.99	\$	- \$ 14,521.46	\$
61-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each per pound Total struct E1" as per dwg 146 each each each	ture count: g. 505573-4622-4 Section Weight (lb) =	12 3DD-0007, per le 5880 2 1	3.31	\$ 675.12 \$ 441.04 \$ 281.84	\$ - \$ \$ 12,510.94 \$ \$ \$ \$ 1,460.99 \$ \$ - \$	- 200,175.02 - 200,175.02 - 174,257.46 - 17,531.87	16 \$ \$ \$ \$ \$ \$ 12 \$ \$ 12 \$ \$ 12 \$	12,510.94 14,521.46 - 1,460.99	\$	- \$ 14,521.46	\$
31-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "le = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each per pound Total struct E1" as per dwg 146 each each each each	16 16 16 16 16 10 10 10 10 10 10 10 10 10 10 10 10 10	12 3DD-0007, per le 5880 2 1 3 4	g	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ - \$ \$ 12,510.94 \$ \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$	200,175.02 174,257.46 17,531.87 122,844.20	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02	\$	- \$ 14,521.46	\$
C1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "le = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each per pound Total struct E1" as per dwo 146 each each each each each each	16 16 16 16 16 10 10 10 10 10 10 10 10 10 10 10 10 10	12 3DD-0007, per les 5880 2 1 3 4 5	3.31	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ \$ 12,510.94 \$ \$ 1460.99 \$ \$ - \$ \$ 10,237.02 \$	200,175.02 174,257.46 	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	12,510.94 14,521.46 1,460.99 - 10,237.02	\$	- \$ 14,521.46	\$
C1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "t = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	each each per pound Total struct E1" as per dwg 146 each each each each each each each	16 16 16 16 16 10 10 10 10 10 10 11 10 11 11 11 11 11	12 3DD-0007, per les 5880 2 1 3 4 5	3.31 8.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ \$ 12,510.94 \$ \$ 1460.99 \$ \$ 10,237.02 \$ \$ - \$ \$ - \$	200,175.02 174,257.46 17,531.87 122,844.20	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - -	\$	- \$ 14,521.46	\$
C1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "le = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 10 10 10 12 12 12 12 12 12 12 12 12 12	12 3DD-0007, per les 5880 2 1 3 4 5 4 6	3.31	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ \$ 12,510.94 \$ \$ 1460.99 \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$	- 200,175.02 174,257.46 17,531.87 - 122,844.20 - 33,881.39	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - - 2,823.45	\$	- \$ 14,521.46	\$
E1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = iite Preparation laul eetup Blocks assemble Bottom anel Bottom assemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "t = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	each each per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per les 5880 2 1 3 4 5 4 6	3.31 8.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ \$ 12,510.94 \$ \$ 1460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$	200,175.02 174,257.46 17,531.87 - 122,844.20 - 33,881.39	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - - 2,823.45	\$	- \$ 14,521.46	\$
11-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = ite Preparation laul letup Blocks lessemble Bottom lanel Bottom lassemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "t = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly	each each per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per les 5880 2 1 3 4 5 4 6	3.31 8.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ 12,510.94 \$ \$ 12,510.94 \$ \$ \$ \$ 1,460.99 \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ - \$	- 200,175.02 174,257.46 17,531.87 122,844.20 - 33,881.39	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - -	\$	- \$ 14,521.46	\$
11-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = ite Preparation laul letup Blocks lessemble Bottom lanel Bottom lassemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each of per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per les 5880 2 1 3 4 5 4 6	3.31 8.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ 12,510.94 \$ \$ 12,510.94 \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ - \$ \$ - \$	- 200,175.02 174,257.46 17,531.87 - 122,844.20 - 33,881.39	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - - -	\$	- \$ 14,521.46	\$
E1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = iite Preparation laul eetup Blocks assemble Bottom anel Bottom assemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	each each per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per les 5880 2 1 3 4 5 4 6	3.31 8.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ 12,510.94 \$ \$ 12,510.94 \$ \$ \$ \$ 1,460.99 \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ - \$	- 200,175.02 174,257.46 17,531.87 - 122,844.20 - 33,881.39	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - - 2,823.45 - - -	\$	- \$ 14,521.46	\$
11-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation laul etup Blocks assemble Bottom lanel Bottom assemble Tops op / Assembly Tower	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping Total Cost = \$ 2.470	each each of per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 17 18 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	12 3DD-0007, per le 5880 2 1 3 4 5 4 6	3.31 8.65	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 200,175.02 174,257.46 17531.87 - 122,844.20 - 33,881.39 	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - - 14,521.46			
1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Total Cost = \$ 2.470	each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 10 10 10 10 10 11 11 12 12 12 12 12 12 12 12 12 12 12	12 3DD-0007, per le 5880 2 1 3 4 5 4 6	3.31 8.65 1.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ 12,510.94 \$ \$ 12,510.94 \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ - \$ \$ - \$	- 200,175.02 174,257.46 17531.87 - 122,844.20 - 33,881.39 	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - - 14,521.46		- \$ 14,521.46 - \$ 16,530.61	
1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower 1-D132 Assembly and Erection of +9 m I 1-D132 Assembly and Erection of +9 m leg	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each o) per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6	3.31 8.65 1.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 200,175.02 174,257.46 17531.87 - 122,844.20 - 33,881.39 	16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - - 14,521.46			
1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower 1-D132 Assembly and Erection of +9 m I 1-D132 Assembly and Erection of +9 m leg Total Tower Weight With Guys and Ext. (lb):	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E1 = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.470 leg extension for Dead-End Tower Type gextension for Dead-End Tower Type "E1 = 26773 Total Tower Height(ft) =	each each o per pound Total struct E1" as per dwo 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6	3.31 8.65 1.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ \$ 12,510.94 \$ \$ \$ \$ 12,510.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,175.02 174,257.46 17,531.87 122,844.20 	16 \$ 16 \$ 16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - 14,521.46 16,530.61			
1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower 1-D132 Assembly and Erection of +9 m I 1-D132 Assembly and Erection of +9 m lec Total Tower Weight With Guys and Ext. (lb): ite Preparation	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	12 3DD-0007, per les 5880 2 1 3 4 5 4 6 0 DD-0007, per les 6693 2	3.31 8.65 1.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ \$ 12,510.94 \$ \$ \$ \$ 12,510.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,175.02 174,257.46 17,531.87 - 122,844.20 - 33,881.39 - 174,257.46	16 \$ 16 \$ 16 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	12,510.94 14,521.46 - 1,460.99 10,237.02 2,823.45 14,521.46 16,530.61			
1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower 1-D132 Assembly and Erection of +9 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.470 leg extension for Dead-End Tower Type g extension for Dead-End Tower Type "E1 = 26773 Total Tower Height(ft) = Site Preparation Hauling	each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 16 1	12 3DD-0007, per les 5880 2 1 3 4 5 4 6 0 DD-0007, per les 6693 2 1	3.31 8.65 1.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ \$ 12,510.94 \$ \$ \$ \$ 12,510.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,175.02 174,257.46 17,531.87 122,844.20 - 33,881.39 - 174,257.46	16 \$ 16 \$ 16 \$ 18 \$ 19 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12	12,510.94 14,521.46 - 1,460.99 10,237.02 2,823.45 14,521.46 16,530.61			
1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower 1-D132 Assembly and Erection of +9 m Ie Total Tower Weight With Guys and Ext. (lb): ite Preparation aul etup Blocks	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.470 leg extension for Dead-End Tower Type g extension for Dead-End Tower Type g extension for Dead-End Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 16 1	12 3DD-0007, per les 5880 2 1 3 4 5 4 6 0 DD-0007, per les 6693 2 1 3	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 12,510.94 \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ 14,521.46 \$ \$ \$ 1,663.13 \$ \$ - \$ \$	- 200,175.02 174,257.46 - 17,531.87 - 122,844.20 33,881.39 	16 \$ 16 \$ 16 \$ 18 \$ 19 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - - 2,823.45 - - 14,521.46 16,530.61			
11-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) site Preparation laul etup Blocks ssemble Bottom ssemble Tops op / Assembly Tower 11-D132 Assembly and Erection of +9 m I Total Tower Weight With Guys and Ext. (lb) site Preparation laul etup Blocks ssemble Bottom	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping Total Cost = \$ 2.470 leg extension for Dead-End Tower Type g extension for Dead-End Tower Type "E1 = 26773 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 16 1	12 3DD-0007, per leg 5880 2 1 3 4 5 4 6 0 DD-0007, per leg 6693 2 1 3 4	3.31 8.65 1.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ 441.04 \$ 281.84 \$ 1,183.92	\$ - \$ \$ 12,510.94 \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ 14,521.46 \$ \$ \$ 1,663.13 \$ \$ - \$ \$ 11,653.39 \$	- 200,175.02 174,257.46 - 17,531.87 - 122,844.20 	16 \$ 16 \$ 16 \$ 18 \$ 19 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - - 2,823.45 - - 14,521.46 16,530.61			
S1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower S1-D132 Assembly Tower S1-D132 Assembly and Erection of +9 m leg Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 16 1	12 3DD-0007, per les 5880 2 1 3 4 5 4 6 0 DD-0007, per les 6693 2 1 3 4 5	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,83.92 \$ 1,656.68 \$ - \$ - \$ - \$ 1,83.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,519.02	\$ - \$ \$ 12,510.94 \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ 14,521.46 \$ \$ \$ 1,663.13 \$ \$ - \$ \$ 11,653.39 \$ \$ - \$ \$	- 200,175.02 174,257.46 - 17,531.87 122,844.20 - 33,881.39 - 174,257.46	16 \$ 16 \$ 16 \$ 16 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - - 14,521.46 16,530.61			
E1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation daul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Sop / Assembly Tower S1-D132 Assembly Tower S1-D132 Assembly and Erection of +9 m leg Total Tower Weight With Guys and Ext. (lb) = Site Preparation daul Setup Blocks Assemble Bottom Panel Bottom Pane	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each o per pound Total struct E1" as per dwg 146 each each each each each each each each	16 16 16 16 16 16 16 16 16 16 16 16 16 1	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6 DD-0007, per leg 6693 2 1 3 4 5 4	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,83.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ \$ 12,510.94 \$ \$ \$ 12,510.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,175.02 174,257.46	16 \$ 16 \$ 16 \$ 18 \$ 18 \$ 19 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - - 14,521.46 16,530.61			
61-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Passemble Tops Top / Assembly Tower 61-D132 Assembly and Erection of +9 m Iec Total Tower Weight With Guys and Ext. (lb): Site Preparation Haul Setup Blocks Assemble Bottom	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each o) per pound Total struct E1" as per dwg 146 each each each each each each each each	ture count: 3. 505573-4622-4 Section Weight (lb) = 12 12 12 12 12 12 12 12 12 0 12 0 0 0 0	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6 DD-0007, per leg 6693 2 1 3 4 5 4	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,83.92 \$ 1,656.68 \$ - \$ - \$ - \$ 1,83.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,519.02	\$ - \$ \$ 12,510.94 \$ \$ \$ 12,510.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		16 \$ 16 \$ 16 \$ 16 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 12,510.94 14,521.46 - 1,460.99 - 10,237.02 - 2,823.45 - 14,521.46 16,530.61			
S1-D131 Assembly and Erection of +7.5 m I Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Sorop / Assembly Tower S1-D132 Assembly Tower S1-D132 Assembly and Erection of +9 m leg Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Panel Bottom Passemble Tops	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each each o) per pound Total struct E1" as per dwg 146 each each each each each each each each	ture count: 3. 505573-4622-4 Section Weight (lb) = 12 12 12 12 12 12 12 12 12 00 10 00 00 00 00 00 00 00 00 00 00 00	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6 DD-0007, per leg 6693 2 1 3 4 5 4 6	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ 12,510.94 \$ \$ 12,510.94 \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ 14,521.46 \$ \$ \$ 11,653.39 \$ \$ - \$ \$ \$ 11,653.39 \$ \$ - \$ \$ \$ 3,214.10 \$ \$ - \$ \$		16 \$ 16 \$ 16 \$ 16 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 12,510.94 14,521.46 - 1,460.99 10,237.02 2,823.45 14,521.46 16,530.61			
Total Tower Weight With Guys and Ext. (lb): Site Preparation Setup Blocks Sesemble Bottom Sanel Bottom Sesemble Tops Sop / Assembly Tower S1-D132 Assembly and Erection of +9 m legation of the management of the managemen	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519	each each each o) per pound Total struct E1" as per dwg 146 each each each each each each each each	ture count: 3. 505573-4622-4 Section Weight (lb) = 12 12 12 12 12 12 12 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6 DD-0007, per leg 6693 2 1 3 4 5 4 6	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ 12,510.94 \$ \$ 12,510.94 \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ 14,521.46 \$ \$ \$ 1,663.13 \$ \$ - \$ \$ 1,663.13 \$ \$ - \$ \$ 1,663.39 \$ \$ - \$ \$ 3,214.10 \$ \$ - \$ \$ \$ 3,214.10 \$ \$ - \$ \$ \$ - \$ \$	- 200,175.02 174,257.46 - 17,531.87 - 122,844.20	16 \$ 16 \$ 16 \$ 16 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 12,510.94 14,521.46 - 1,460.99 10,237.02 2,823.45 14,521.46 16,530.61			
Total Tower Weight With Guys and Ext. (lb): Site Preparation Setup Blocks Sesemble Bottom Sanel Bottom Sesemble Tops Sop / Assembly Tower S1-D132 Assembly and Erection of +9 m legation of the management of the managemen	m leg extension for Dead-End Tower leg extension for Dead-End Tower Type "E = 23519 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping Total Cost = \$ 2.470 leg extension for Dead-End Tower Type g extension for Dead-End Tower Type g extension for Dead-End Tower Type "E1 = 26773 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Tower Topping	each each each o) per pound Total struct E1" as per dwg 146 each each each each each each each each	ture count: 3. 505573-4622-4 Section Weight (lb) = 12 12 12 12 12 12 12 12 12 00 10 00 00 00 00 00 00 00 00 00 00 00	12 3DD-0007, per lec 5880 2 1 3 4 5 4 6 DD-0007, per leg 6693 2 1 3 4 5 4 6	3.31 8.65 1.70 EA	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ 12,510.94 \$ \$ 12,510.94 \$ \$ \$ 1,460.99 \$ \$ - \$ \$ 10,237.02 \$ \$ - \$ \$ 2,823.45 \$ \$ - \$ \$ 14,521.46 \$ \$ \$ 11,653.39 \$ \$ - \$ \$ \$ 11,653.39 \$ \$ - \$ \$ \$ 3,214.10 \$ \$ - \$ \$		16 \$ 16 \$ 16 \$ 16 \$ \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$ 12 \$	- 12,510.94 14,521.46 - 1,460.99 10,237.02 2,823.45 14,521.46 16,530.61			



	kV HVdc Line Construction Front 2 (L	Long Range Mountai		Inita				Crew Cost							II.	it Cost	
t Description				Jnits Total	Crew No.	Hours per unit	ш	ourly Rate	Unit Cost	Subtotal	Units		Unit Cost	Materials	Manhou		l Materials
Description				rotar	CIEW NO.	unit	110	Duriy Itale	Offic Cost	Cubiotai	Office		Offit Cost	Materials	Widte	indio Tota	i wateriais
S1-E Installati	tion of Wires and OPGW (S1-Ex)																
	on of Counterpoise wire, connection with	tower grounding	Total struct	ure count:	227	KM				\$ 1,976,37	8.86	\$	8,706.51 \$	-	\$	8,706.51 \$	
S1-E1 Installation	n of Counterpoise wire, connection with towe	r grounding				_											
				Assume		1 km/day											
Haul		Wire Hauling	each	227	9	0.15	\$		\$ 62.22	\$ 14,12			62.22				
Plow Counterpois		Counterpoise Instal	each	227	43	11.00	\$		\$ 8,251.67			7 \$	8,251.67				
Connect at tower	<u>r</u>	Ground Testing	each each	227 227	25	1.50	\$	261.75			4.91 227	7 \$	392.62				
			each	227			\$	-	\$ - \$ -	т	- 227	7 \$	-				
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									\$ 8,706.51	\$ 1,976,37	8.86	\$	8,706.51				
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	on of ground rods at crossing obstacles in		Total struct	ure count:	120	EA				\$ 22,50	4.56	\$	187.54 \$	-	\$	187.54 \$	
S1-E2 Installation	n of ground rods at crossing obstacles in soil	and rock															
Haul and install			aaah	120	42	0.25	<u> </u>	750 1 <i>E</i>	¢ 107.54	φ 22 E(4 EG 100	ጎ ሶ	107 E1				
Haul and install		Counterpoise Instal	each	120	43	0.25	\$	750.15) \$ n ¢	187.54				
Haul and install		Counterpoise Instal	each	120	43	0.25	\$	750.1 5	\$ -	\$	- 120	3 \$	=				
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Haul and install		Counterpoise Instal	each each each each each each	120 120 120 120 120 120 120 120 120	43	0.25	\$ \$ \$ \$		\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -				
Haul and install		Counterpoise Instal	each each each each each each each each	120 120 120 120 120 120 120 120 120 120	43	0.25	\$ \$ \$ \$		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -				
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S1-E3 Tower Foo	noting resistance measurement	Counterpoise Instal	each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	0.25 EA	\$ \$ \$ \$ \$ \$		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - -		\$	130.87 \$	
S1-E3 Tower Foo	ooting resistance measurement oting resistance measurement	Counterpoise Instal	each each each each each each each each	120 120 120 120 120 120 120 120 120 120			\$ \$ \$ \$ \$ \$		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - 187.54	-	\$	130.87 \$	
S1-E3 Tower Foo S1-E3 Tower Foo	oting resistance measurement		each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 -	0	- - - - - - - - - 187.54		\$	130.87 \$	
S1-E3 Tower Foo	oting resistance measurement	Counterpoise Instal Ground Testing	each each each each each each each each	120 120 120 120 120 120 120 120 120 120		EA 0.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 187.54	-	\$	130.87 \$	
S1-E3 Tower Foo S1-E3 Tower Foo	oting resistance measurement		each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	EA 0.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 20 - 227 - 227 - 227	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 187.54 130.87 \$		\$	130.87 \$	
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S1-E3 Tower Foo S1-E3 Tower Foo	oting resistance measurement		each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	EA 0.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	261.75 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 227 -	0		-	\$	130.87 \$	
S1-E3 Tower Foo S1-E3 Tower Foo	oting resistance measurement		each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	EA 0.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	261.75 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 227	D S S D S S D S S D S S S S S S S S S S	- - - - - - - - - 187.54 130.87 \$	-	\$	130.87 \$	
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S1-E3 Tower Foo S1-E3 Tower Foo	oting resistance measurement		each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	EA 0.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	261.75 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120	0			\$	130.87 \$	
S1-E3 Tower Foo S1-E3 Tower Foo	oting resistance measurement		each each each each each each each each	120 120 120 120 120 120 120 120 120 120	227	EA 0.50	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	261.75 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 120 - 120	0			\$	130.87 \$	



NALCOR 350 kV HVdc Line Construction	Front 2 (Long Range Moun	. /				Crew Cost							Unit Cost	
		l	Jnits		Hours per				[]				ours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	M	laterials T	otal Materials
S1-E4 S1 - Installation of Conductor on Steel 1	'owara 2622 0 kamil 110/7 AC6	SD Total struct	uro count:	0	KM			-	\$	70,302.67	¢	- \$	70,302.67	•
S1-E4 S1 - Installation of Conductor on Steel To					L/IAI		1	-	Ф	10,302.01	Þ	- ф	10,302.01	•
1350m per reel / Average		· ·	Assume		1 km/day									
Haul	Wire Hauling	each	0		7.30	\$ 405.51	2,960.84	-	0 \$		T			
Prepare Pull site	Pull Site Prep	each	0	10	3.70	\$ 1,282.13	4,748.63	-		_	†			
Install Rock anchor for pull site 50%	Rock Foundations	each	0	36	0.99	\$ 920.20	908.84	-		-	†			
Pull In Conductor & Sag	Stringing	each	0	11	10.00	\$ 5,977.88	59,778.85		0 \$		†			
Tull III Conductor & oug	Sungnig	each	0	- ''	10.00	¢ 5,577.55	5 - 9				†			
Sock installation by Helicopter	HeliSockInstall	each	0	34	1.00	\$ 1,905.50	1,905.50		0 \$	_	†			
Cook inclanation by Froncoptor	Heliooxillataii	each	0		1.00	\$ -	1,000.00		0 \$	_	†			
		each	0			\$ -	- 3		0 \$	_	†			
		each	0			\$ -	- 3			_	†			
		each	0			\$ -	- 5		-	_	†			
		each	0			\$ - :	- 5	-	0 \$	_	†			
			· · · · · · · · · · · · · · · · · · ·				70,302.67	-		-	1			
									,		-			
S2-E4 S2 - Installation of Conductor on Steel 1	owers - 3633.0 kcmil 110/7 ACS	R Total struct	ure count:	0	KM		9	-	\$	89,645.00	\$	- \$	89,645.00	5
S2-E4 S2 - Installation of Conductor on Steel Tov	ers - 3633.0 kcmil 110/7 ACSR (Conductor, comple	ete for both pole:	3	_									
1350m per reel / Average			Assume		9 km/day						_			
Haul	Wire Hauling	each	0			\$ 405.51	8,110.14			-	1			
Prepare Pull site	Pull Site Prep	each	0	10	3.70	\$ 1,282.13	4,748.63	-	0 \$	=	Ī			
Install Rock anchor for pull site 100%	Rock Foundations	each	0	36	1.98	\$ 920. 20	1,817.69	-	0 \$	=	Ī			
install Nock afferior for pull site 100%			•	11	12.22	\$ 5,977.88	73,063.04	-		-	1			
Pull In Conductor & Sag	Stringing	each	0	1.1	12.22									
Pull In Conductor & Sag		each each	0	11	12.22		- 3			=	1			
			Ů	34	1.00	\$ -	- S 1,905.50 S		0 \$	-				
Pull In Conductor & Sag Sock installation by Helicopter	Stringing HeliSockInstall	each each each	0 0	34	1.00	\$ - 9 \$ 1,905.50	1,905.50 S 8 - S 8 89,645.00 S	5 - 5 -	0 \$ 0 \$	- - -		¢	96 EEE 42 d	
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Town	Stringing HellSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (each each each SR Total struct	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34 227	1.00	\$ - 9 \$ 1,905.50	1,905.50	5 - 5 -	0 \$ 0 \$		\$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACSR (Haul distance =	each each each SR Total struct Conductor, comple	ure count:	227	1.00 KM 9 km/day	\$ 1,905.50 \$	1,905.50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	19,648,080.	0 \$ 0 \$	- - - 86,555.42		- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACSR (Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling	each each each SR Total struct Conductor, comple 400 km each	ure count: ete for both pole: Assume	227 6 0.0	1.00 KM 9 km/day 12.38	\$ 1,905.50 \$ 2	1,905.50	5 19,648,080. 5 1,139,667.	0 \$ 0 \$ \$ 0 \$ \$ 72 227 \$	- - - 86,555.42 5,020.56	 \$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site	Stringing HellSockInstall Fowers - 3633.0 kcmil 110/7 ACSR (Para - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pull Site Prep	each each each SR Total struct Conductor, comple 400 km each each	ure count: ete for both pole: Assume 227 227	227 6 0.0	1.00 KM 9 km/day 12.38 3.70	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13	1,905.50	5 19,648,080. 5 1,139,667. 6 1,077,939.	0 \$ 0 \$ \$ 0 \$ \$ 72 227 \$ 74 227 \$	- - - 86,555.42 5,020.56 4,748.63	 \$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66%	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS /ers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pull Site Prep Rock Foundations	each each each SR Total struct Conductor, comple 400 km each each each	ure count: ete for both pole: Assume 227 227	227 5 0,0 9 10 36	1.00 KM 9 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ \$ 405.51 \$ \$ 1,282.13 \$ 920.20 \$	5 1,905.50 5 89,645.00 5 5,020.56 5 4,748.63 5 1,817.69 5	19,648,080. 19,648,080. 1,139,667. 1,077,939. 412,614.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$	5,020.56 4,748.63 1,817.69	\$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site	Stringing HellSockInstall Fowers - 3633.0 kcmil 110/7 ACSR (Para - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pull Site Prep	each each each SR Total struct Conductor, comple 400 km each each each each	ure count: ete for both pole: Assume 227 227 227	227 6 0.0	1.00 KM 9 km/day 12.38 3.70	\$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13	5 1,905.50 S 89,645.00 S 5 5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S	5 19,648,080. 5 1,139,667. 6 1,077,939. 6 412,614.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$	5,020.56 4,748.63 1,817.69 73,063.04	\$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep Rock Foundations Stringing	each each each SR Total struct Conductor, comple 400 km each each each each each	0 0 0 0 0 ure count: ete for both pole: Assume 227 227 227 227	34 227 3 9 10 36 11	1.00 KM 9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ 1,905.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ -	5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S - S	5 19,648,080. 5 1,139,667. 5 1,077,939. 6 412,614. 6 16,585,309.	0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$	5,020.56 4,748.63 1,817.69 73,063.04	\$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66%	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS /ers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pull Site Prep Rock Foundations	each each each SR Total struct Conductor, comple 400 km each each each each each each	0 0 0 0 0 ure count: ete for both pole: Assume 227 227 227 227 227	227 5 0,0 9 10 36	1.00 KM 9 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ \$ 405.51 \$ \$ 1,282.13 \$ 920.20 \$	5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S 1,905.50 S	19,648,080. 19,648,080. 1,139,667. 1,077,939. 11,077,939. 11,077,939. 11,077,939.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 50 227 \$	5,020.56 4,748.63 1,817.69 73,063.04	\$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep Rock Foundations Stringing	each each each SR Total struct Conductor, comple 400 km each each each each each	0 0 0 0 0 ure count: ete for both pole: Assume 227 227 227 227	34 227 3 9 10 36 11	1.00 KM 9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	5 1,905.50 S 89,645.00 S 5 5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S 1,905.50 S 1,905.50 S	19,648,080. 19,648,080. 1,139,667. 1,077,939. 412,614. 16,585,309. 432,548.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 50 227 \$ 227 \$	5,020.56 4,748.63 1,817.69 73,063.04	\$	- \$	86,555.42	3
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep Rock Foundations Stringing	each each each SR Total struct Conductor, comple 400 km each each each each each each	0 0 0 0 0 ure count: ete for both pole: Assume 227 227 227 227 227	34 227 3 9 10 36 11	1.00 KM 9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ 1,905.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ -	5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S 1,905.50 S 5	19,648,080. 19,648,080. 1,139,667. 1,077,939. 1412,614. 16,585,309. 16,585,309. 16,585,309.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 50 227 \$ 227 \$	5,020.56 4,748.63 1,817.69 73,063.04	\$	- \$	86,555.42	5
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter	Stringing HellSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall	each each each SR Total struct Conductor, comple 400 km each each each each each each each	0 0 0 0 ure count: ete for both pole: Assume 227 227 227 227 227 227	34 227 6 0.9 10 36 11	1.00 KM 9 km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S 1,905.50 S 5 86,555.42 S	19,648,080. 19,648,080. 1,139,667. 1,077,939. 412,614. 16,585,309. 432,548. 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 227 \$ 227 \$ 00 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50				
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Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on Steel Town S4-E4 S4 - Installation of Conductor on S4-E4 S4 - Installation of Conductor on S4-E4 S4 - Installation of Conductor on S4-E4 S4 - Installation of Conductor on S4-E4 S4 - Installation of Conductor on S4-E4 S4 - Installation of Conductor on S4-E4 S4 - Installation of C4-E4 S4 - Insta	Stringing HeliSockInstall	each each each each SR Total struct Conductor, comple 400 km each each each each each each each cach each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 227 2	34 227 6 0.9 10 36 11 34	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ -	5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S 1,905.50 S 5 86,555.42 S	19,648,080. 19,648,080. 1,139,667. 1,077,939. 412,614. 16,585,309. 432,548. 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 227 \$ 227 \$ 00 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town 1350m per reel / Average	Stringing HeliSockinstall	each each each Conductor, completed each each each each each each each each	0 0 0 0 ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227	227 5 0,0 9 10 36 11 34	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day	\$ 1,905.50 \$ \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ \$ 1,905.50 \$ \$ \$	5,020.56 S 4,748.63 S 1,817.69 S 73,063.04 S 1,905.50 S S 86,555.42 S	19,648,080. 19,648,080. 1,139,667. 1,077,939. 16,585,309. 16,585,309. 16,585,309. 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 227 \$ 227 \$ 50 227 \$ 227 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town 1350m per reel / Average Haul	Stringing HeliSockInstall Flowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep Rock Foundations Stringing HeliSockInstall Flowers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling	each each each each Conductor, completed 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 227 2	34 227 3 0,9 10 36 11 34	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38	\$ 1,905.50 \$ \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ \$ 1,905.50 \$ \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ 1,905.50 \$ \$ \$ 1,905.50 \$ \$ 1	5,020.56 S 1,905.50 S 5,020.56 S 1,905.50 S 5 1,905.50 S	19,648,080. 19,648,080. 11,139,667. 1,077,939. 16,585,309. 16,585,309. 17,648,080. 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 22 227 \$ 227 \$ 50 227 \$ 227 \$ \$ 50 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,020.56 4,748.63 1,817.69 73,063.04 1,905.50 - 86,555.42				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep Rock Foundations Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep	each each each each SR Total struct Conductor, comple 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 227 2	227 3 0,9 10 36 11 34 0 5 1.: 9 10	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70	\$ 1,905.50 \$ \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.51 \$ \$ 1,282.13 \$ \$ 1,282.13 \$ \$ 1,282.13 \$ \$ \$ 1,282.13 \$ \$ 1	5,020.56 S 4,748.63 S 1,905.50 S 5 86,555.42 S 5,020.56 S 4,748.63 S 1,905.50 S 5 73,063.04 S 73,063.04 S 73,063.04 S 74,063.04 S 75,063.0	5 19,648,080. 5 1,139,667. 5 1,077,939. 6 412,614. 6 16,585,309. 7 432,548. 7 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 227 \$ 227 \$ 227 \$ 50 227 \$ 227 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50 - 86,555.42				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100%	Stringing HeliSockInstall	each each each each SR Total struct Conductor, comple 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 227 2	34 227 3 0,9 10 36 11 34 0 1.1 9 10 36 36	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ 1,282.13 \$ 920.20	5,020.56 S 4,748.63 S 1,905.50 S S 86,555.42 S 5,020.56 S 4,748.63 S 1,817.69 S 5 1	5 19,648,080. 5 1,139,667. 5 1,077,939. 6 412,614. 6 16,585,309. 6 432,548. 6 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 227 \$ 227 \$ 227 \$ 50 227 \$ 30 \$ \$ 0 \$ \$ 0 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50 - 86,555.42 73,271.23				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site	Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep Rock Foundations Stringing HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACSR (Haul distance = Wire Hauling Pul Site Prep	each each each each SR Total struct Conductor, comple 400 km each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34 227 3 0.3 9 10 34 0 35 1. 9 10 36 11	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70	\$ 1,905.50 \$ \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.51 \$ \$ 1,282.13 \$ \$ 1,282.13 \$ \$ 1,282.13 \$ \$ \$ 1,282.13 \$ \$ 1	5,020.56 \$ 6 4,748.63 \$ 73,063.04 \$ 73,063.04 \$ 6 1,905.50 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 73,063.04 \$ 74,063 \$ 75,020.56 \$ 75,020.56 \$ 75,020.56 \$ 75,020.56 \$ 75,020.56 \$	5 19,648,080. 5 1,139,667. 5 1,077,939. 6 412,614. 5 16,585,309. 6 432,548. 6 19,648,080.	0 \$ 0 \$ 0 \$ 72 227 \$ 74 227 \$ 82 227 \$ 22 227 \$ 227 \$ 227 \$ 227 \$ 00 \$ \$ 0 \$ \$ 0 \$ 0 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50 - 86,555.42				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Stringing HellSockInstall	each each each each SR Total struct Conductor, comple 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 200 00 00 00	34 227 30 9 10 36 11 34 0 1. 9 10 36 11	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ \$ 1,282.13 \$ 920.20 \$ \$ 5,977.88 \$ - \$ \$ 1,905.50 \$ \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,977.88 \$ 1,282.13 \$ 1,28	5,020.56 S 6 3,020.56 S 73,063.04 S 74,063.04 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S 75,020.56 S	19,648,080. 19,648,080. 1,139,667. 1,077,939. 1412,614. 16,585,309. 1432,548. 19,648,080.	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50 - 86,555.42 73,271.23				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel To S3-E4 S3 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Town 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100%	Stringing HeliSockInstall	each each each each each SR Total struct Conductor, comple 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 200 200	34 227 6 0.4 9 10 36 11 34 0 1. 9 10 36 1. 34	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ 1,282.13 \$ 920.20	5 1,905.50 \$ 89,645.00 \$ 5 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 5 1,905.50 \$ 6 86,555.42 \$ 5 5,020.56 \$ 73,063.04 \$ 73,063.04 \$ 74,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.04 \$ 75,063.05 \$	19,648,080. 19,648,080. 1,139,667. 1,077,939. 116,585,309. 16,585,309. 19,648,080. 19,648,080.	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50 - 86,555.42 73,271.23				
Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Stringing HellSockInstall	each each each each each SR Total struct Conductor, complet 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 200 200	34 227 5 0.5 9 10 36 11 34 0 11 34 34	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,282.13 \$ 920.20 \$ 5,977.88	5,020.56 S 6,020.56 S 73,063.04 S 73,063.04 S 73,063.04 S 74,748.63 S 74,748.63 S 75,020.56 S 75,020.56 S 76,020.56 S 77,085.50 S 77,085.50 S 77,085.50 S 77,788.5 S 77,788.5 S 77,788.5 S 77,788.5 S 77,788.5 S	19,648,080. 19,648,080. 11,139,667. 11,077,939. 110,585,309. 110,585	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,020.56 4,748.63 1,817.69 73,063.04 - 1,905.50 - 86,555.42 73,271.23				
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Pull In Conductor & Sag Sock installation by Helicopter S3-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter S4-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	Stringing HellSockInstall	each each each each each SR Total struct Conductor, complet 400 km each each each each each each each each	ure count: ete for both pole: Assume 227 227 227 227 227 227 227 227 227 00 00 00 00 00 00 00	227 5 0,9 10 36 11 34 0 5 1. 9 10 36 11 34	1.00 KM 9 km/day 12.38 3.70 1.98 12.22 1.00 KM 1 km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,282.13 \$ 1,282.13 \$ 1,282.13 \$ 1,282.13 \$ 1,282.13	5,020.56 S 6,020.56 S 73,063.04 S 73,063.04 S 73,063.04 S 74,748.63 S 75,020.56 S 75,020.56 S 76,020.56 S 77,063.04 S 77,063.0	19,648,080. 19,648,080. 1,139,667. 1,077,939. 112,614. 16,585,309. 16,432,548. 19,648,080. 19,648,080.	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$					



NALCOR 350 kV HVdc Line Construction Fr	Torit 2 (Long Range Mount		Jnits		Harren er							Manhours an	1
Description			Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Mannours an Materials	Total Materials
S5-E4 S5 - Installation of Conductor on Steel Tow S5-E4 S5 - Installation of Conductor on Steel Towers				0	KM			-	\$	66,229.94	\$	- \$ 66,229	.94 \$
1350m per reel / Average Hai			ete for both pole Assume		2 km/day								
Haul	Wire Hauling	each	Assume	_	7.30	\$ 405.51	\$ 2,960.84	· -	0 \$	_ [
Prepare Pull site	Pull Site Prep	each			3.70	·	\$ 4,748.63			-			
Install Rock anchor for pull site 100%	Rock Foundations	each			1.98	\$ 920.20	\$ 1,817.69		0 \$	-			
Pull In Conductor & Sag	Stringing	each			9.17	\$ 5,977.88	\$ 54,797.28		0 \$	-			
T dil ili Octionación a dag	Gunging	each			0.11	\$ -	\$ - 5		0 \$	-			
Sock installation by Helicopter	HeliSockInstall	each			1.00	\$ 1,905.50	\$ 1,905.50			-			
	ronocommuni			, <u> </u>		1,000.00	\$ 66,229.94		\$	-			
							• ,		_				
S1-E5 Installation of Conductor on Steel Towers -	- 1192.5 kcmil 54/19 ACSR	Total structu	ure count:	0	KM		9	-	\$	44,488.49	\$	- \$ 44,488	.49 \$
S1-E5 Installation of Conductor on Steel Towers - 11				electrodes						,	•	, , , ,	•
1800m per reel / Average Hai		,	Assume		8 km/day								
Haul	Wire Hauling	each	C	_	3.69	\$ 405.51	\$ 1,496.51	-	0 \$	-			
Prepare Pull site	Pull Site Prep	each	C	10	2.50	\$ 1,282.13	\$ 3,205.33	-		-			
Pull In Conductor & Sag	•	each	C			\$ -	\$ - 5	· -		-			
Install Rock anchor for pull site 66%	Rock Foundations	each	C		1.47	\$ 920.20	\$ 1,349.63			-			
Pull In Conductor & Sag	Stringing	each	C		6.11	\$ 5,977.88	\$ 36,531.52 \$			-			
Splicing Time for DE Crew		each	C			\$ -	\$ - 8			-			
Sock installation by Helicopter	HeliSockInstall	each	C	34	1.00	\$ 1,905.50	\$ 1,905.50	-	0 \$	-			
		each	C)		\$ -	\$ - 3	; -	0 \$	-			
		each	C			\$ -	\$ - 5	-	0 \$	-			
		each	C				\$ - 9	· -		_			
							T						
S1-E6 Installation of Conductor on Steel Towers - 156 Installation of Conductor on Steel Towers - 15	1590.0 kcmil 54/19 ACSR Falcon	Total structu		0 lectrodes	KM		\$ - S \$ 44,488.49 <u>S</u>	-	0 \$ \$	63,593.22	\$	- \$ 63,593	.22 \$
	1590.0 kcmil 54/19 ACSR Falcon	Total structu	ure count:	0 lectrodes	KM 3 km/day		\$ 44,488.49	3 -	\$	-	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Haul	1590.0 kcmil 54/19 ACSR Falcon	Total structu	ure count: plete for both e	0 lectrodes	_	\$ 405.51	\$ 44,488.49 § § § § § § § § § §		\$ \$ 0 \$	-	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Haul Prepare Pull site	I590.0 kcmil 54/19 ACSR Falcon aul distance = 7	Total structun Conductor, comp700 km each each	ure count: plete for both e Assume	0 lectrodes 1.	3 km/day		\$ 44,488.49 \$ \$ 6,082.60 \$ \$ 3,205.33 \$	5 - 5 -	\$ \$ 0 \$ 0 \$	63,593.22	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7	Total structu n Conductor, com 700 km each each	ure count: plete for both e Assume	0 lectrodes 1. 9	3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ -	\$ 44,488.49 \$ 6,082.60 \$ \$ 3,205.33 \$ \$ -	5 - 5 - 5 -	\$ \$ • 0 \$ • 0 \$ • 0 \$	63,593.22	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100%	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7	Total structu n Conductor, com 700 km each each each	ure count: plete for both e Assume	0 lectrodes 1. 9 10	3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20	\$ 44,488.49 \$ \$ 6,082.60 \$ \$ 3,205.33 \$ - \$ \$ 1,817.69 \$	3 - 3 - 3 - 3 -	\$	- 63,593.22 - -	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep	Total structu n Conductor, com 700 km each each each each each	ure count: plete for both e Assume	0 lectrodes 1. 9 10 36 11	3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20	\$ 44,488.49 \$ \$ 6,082.60 \$ \$ 3,205.33 \$ \$ - \$ \$ 1,817.69 \$ \$ 50,582.10 \$		\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 63,593.22 - - -	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations	Total structu n Conductor, com 700 km each each each each each each each	ure count: plete for both e Assume	0 lectrodes 1. 9 10 10	3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20 \$ 5,977.88 \$ -	\$ 44,488.49 \$ \$ 6,082.60 \$ 3,205.33 \$ \$ - \$ \$ 50,582.10 \$ \$ - \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - -	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations	Total structu n Conductor, com 700 km each each each each each each each eac	ure count: plete for both e Assume	0 lectrodes 1. 9 10 36 11 34	3 km/day 15.00 2.50	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20	\$ 44,488.49 \$ \$ 6,082.60 \$ \$ 3,205.33 \$ \$ - \$ \$ 50,582.10 \$ \$ - \$ \$ 1,905.50 \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - -	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing	Total structu n Conductor, com 700 km each each each each each each each eac	ure count: plete for both e Assume C C C C C C C C C C C C C C C C C C	0 lectrodes 1. 9 10 10 11 11 34	3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50	\$ 44,488.49 \$ \$ 6,082.60 \$ 3,205.33 \$ \$ - \$ \$ 1,817.69 \$ \$ 50,582.10 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - -	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing	Total structu n Conductor, com 700 km each each each each each each each eac	ure count: plete for both e Assume C C C C C C C C C C C C C C C C C C	0 electrodes 1. 9 10 10 11 11 11 11 11 11 11 11 11 11 11	3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.60 \$ -	\$ 6,082.60 \$ 3,205.33 \$ \$ 50,582.10 \$ \$ \$ 1,905.50 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - - - -	\$	- \$ 63,593	.22 \$
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing	Total structu n Conductor, com 700 km each each each each each each each eac	ure count: plete for both e Assume	0 ectrodes 1. 9 10 10 11 11 11 11 11 11 11 11 11 11 11	3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ 1,282.13 \$ - \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.60 \$ -	\$ 6,082.60 \$ 3,205.33 \$ - \$ 50,582.10 \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - - - -	\$	- \$ 63,593	.22 \$
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S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 118 1800m per reel / Average Hat Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall - 1192.5 kcmil 54/19 ACSR 192.5 kcmil 54/19 ACSR Grackle aul distance = 6 Wire Hauling Pull Site Prep	Total structure Conductor, compact of the conductor conductor	ure count: plete for both e Assume C C C C C C C C C C C C C C C C C C	0 lectrodes 1. 9 10 36 11 11 34 11 11 11 11 11 11 11 11 11 11 11 11 11	3 km/day 15.00 2.50 1.98 8.46 1.00 KM 5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 6,082.60 \$ 3,205.33 \$ 1,905.50 \$ - \$ \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - - - - - - - - - - - -			
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hatel Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 118 1800m per reel / Average Hatel Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall - 1192.5 kcmil 54/19 ACSR 192.5 kcmil 54/19 ACSR Grackle aul distance = 6 Wire Hauling Pull Site Prep	Total structum Conductor, common Properties of Conductor, comm	ure count: plete for both e Assume C C C C C C C C C C C C C C C C C C	0 lectrodes 1. 9 10 36 11 11 34 11 11 11 11 11 11 11 11 11 11 11 11 11	3 km/day 15.00 2.50 1.98 8.46 1.00 KM 5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ 1,282.13 \$ 2,442.63 \$ - \$ - \$ - \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13	\$ 6,082.60 \$ 3,205.33 \$ 1,817.69 \$ 50,582.10 \$ 5 - \$ 5 \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ \$ - \$ 5 \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - - - - - - - - - - - -			
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hatel Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - 118 1800m per reel / Average Hatel Haul Prepare Pull site	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall - 1192.5 kcmil 54/19 ACSR 192.5 kcmil 54/19 ACSR Grackle aul distance = 6 Wire Hauling Pull Site Prep	Total structum Conductor, common Properties of Conductor, comm	ure count: plete for both e Assume C C C C C C C C C C C C C C C C C C	0 lectrodes 1. 9 10 36 11 34 0 lectrodes 1. 9 10 10 10 10 10 10 10 10 10 10 10 10 10	3 km/day 15.00 2.50 1.98 8.46 1.00 KM 5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ 1,282.13 \$ 2,442.63 \$ - \$ - \$ - \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13 \$ - \$ 1,282.13	\$ 6,082.60 \$ 3,205.33 \$ 1,817.69 \$ 50,582.10 \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22 - - - - - - - - - - - - - - - - - -			
S1-E6 Installation of Conductor on Steel Towers - 15 1800m per reel / Average Hat Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles - S1-E7 Installation of Conductor on Wood Poles - 119	1590.0 kcmil 54/19 ACSR Falcon aul distance = 7 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall - 1192.5 kcmil 54/19 ACSR 192.5 kcmil 54/19 ACSR Grackle aul distance = 6 Wire Hauling Pull Site Prep	Total structum Conductor, common Properties of Conductor, comm	ure count: plete for both e Assume C C C C C C C C C C C C C C C C C C	0 lectrodes 1. 9 10 36 11 34 0 lectrodes 1. 9 10 10 10 10 10 10 10 10 10 10 10 10 10	3 km/day 15.00 2.50 1.98 8.46 1.00 KM 5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ 5,977.88 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 6,082.60 \$ 3,205.33 \$ 1,817.69 \$ 50,582.10 \$ 5 - \$ 5 \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ \$ - \$ 5 \$ - \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 63,593.22			



	NALCOR 350 kV HVdc Line Construct	tion Front 2 (Long Range Mounta	ains)				Crew Cost						Total Unit Cost	
Payment			Úr	nits		Hours per							Manhours and	
Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::E08	S1-E8 Installation of Conductor on Wood P	Polos - 1500 0 komil 54/10 ACSP	Total structur	re count:	0	KM			\$ -	\$	30,954.03 \$		\$ 30,954.03	• -
VEU6	S1-E8 Installation of Conductor on Wood Pole					IXIVI			-	4	30,334.03 \$		φ 30,334.03	-
	1800m per reel / Avera		•	Assume		3 km/day								
	Haul	Wire Hauling	each	0	9		\$ 405.51	\$ 7,080.28	\$ -	0 \$	-			
	Prepare Pull site	Pull Site Prep	each	0	10			\$ 3,205.33		0 \$				
	Slack Stringing	Slack Stringing	each	0	50		\$ 2,442.63			0 \$				
			each	0				\$ -	\$ -	0 \$				
			each	0			- :	\$ -	\$ -	0 \$				
			each	0					\$ -	0 \$	-			
			each	0					\$ -	0 \$				
			each	0			\$ - ;	*	\$ -	0 \$				
			each	0				,	\$ -	0 \$				
			each	0			'	\$ -		0 \$				
			each	0				\$ - \$ 30.954.03		0 \$				
								\$ 30,954.03	\$ -	\$	-			
V::E09	S1-E9 Installation of ADSS on Wood Poles		Total structur	ro count:	0	KM			\$ -	\$	12,167.46 \$		\$ 12,167.46	œ.
V.:EU9	S1-E9 Installation of ADSS on Wood Poles S1-E9 Installation of ADSS on Wood Poles		Total Structul	re count.	U	LZIVI				4	12,107.40 \$	-	φ 12,101.40	-
		kg/m and 66	80 kg / reel A	Assume	1	km/day								
	Haul	Wire Hauling	each	0	9		\$ 405.51	\$ 456.20	\$ -	0 \$	-			
	Prepare Pull site	Pull Site Prep	each	0	10	3.15	\$ 1,282.13			0 \$				
	Pull In OPGW & Sag	OPGW Install	each	0	15	2.75	\$ 2,790.88			0 \$				
			each	0				\$ -		0 \$	i -			
			each	0				\$ -		0 \$				
			each	0			\$ - 9	\$ -	\$ -	0 \$	-			
			each	0			\$ - ;	\$ -	\$ -	0 \$				
			each	0			\$ -	\$ -	\$ -	0 \$	-			
			each	0				\$ -	*	0 \$				
			each	0					\$ -	0 \$				
			each	0			-		\$ -	0 \$				
								\$ 12,167.46	\$ -	\$	-			
									•		5 500 00 A		A 5500.00	
V::E10	S1-E10 ADSS splicing and tests including S1-E10 ADSS splicing and tests including los	loss analysis	Total structur	re count:	0	EA			\$ -	\$	5,562.88 \$	-	\$ 5,562.88	-
	51-ETO ADS5 splicing and tests including los	s analysis												
	Assume number of splice points =		1 @	2/	Minutes/Fibre =	9.60	Hours per 24 fibre splice							
	Haul and install Fibre Splice Box	Tie -in	each	0	12	4.00		\$ 2,705.21	\$ -	0 \$	-			
	That are motal tible opilice box	He-III	each	0	12	4.00			\$ -	0 \$				
	Splice and test Fibre	OPGW Splice	each	0	42	9.60	\$ 297.67			0 \$				
		от от орнос	each	0		0.00		\$ -		0 \$				
			each	/ 0				\$ -	*	0 \$	i -			
			each	0				\$ -		0 \$	=			
			each	0				\$ -	•	0 \$	-			
			each	0				\$ -	•	0 \$	-			
			each	0				\$ -	\$ -	0 \$	_			
			each	0			\$ - ;	\$ -	\$ -	0 \$	-			
			each	0			\$ -	\$ -		0 \$	-			
								\$ 5,562.88	\$ -	\$	-			



	NALCOR 350 kV HVdc Line Construction Fron	ı <mark>t 2 (Long Range Moun</mark>			•		Crew Cost						Total Unit Cost	
nt	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
	S1-E11 ADSS end to end test S1-E11 ADSS end to end test		Total struct	ure count:	0	LS		I	\$ -	•	7,144.18 \$	-	\$ 7,144.18	\$
	Test	OPGW Splice	each	0	42	24.00	\$ 297.67			0 \$	-			
			each	0				•	\$ -	0 9				
			each each	0				-	\$ -	0 9				
			each	0		_	•		\$ -					
			each	0			-		\$ -	0 9				
			each	0					\$ -					
			each	0				•	\$ -	0 9				
			each	0					\$ -	0 \$				
			each	0		_		\$ -		0 9				
			each	0				\$ - 7 ,144.18		0 9				
2	S1-E12 S1 - Installation of OPGW		Total struct	ture count:	0	KM			\$ -	(15,181.18 \$	-	\$ 15,181.18	\$
	S1-E12 S1 - Installation of OPGW 1.2 kg/m and	6	6680 kg / reel	Assume	3	.5 km/day								
	Haul	Wire Hauling	each	Assume 0	9		\$ 405.51	\$ 740.21	\$ -	0 9	-			
	Prepare Pull site	Pull Site Prep	each	0	10	3.15	\$ 1,282.13			0 9				
	Pull In OPGW & Sag	OPGW Install	each	0	15	3.14	\$ 2,790.88			0 9				
			each	0					\$ -	0 9				
			each	0				\$ -		0 9				
	Sock installation by Helicopter	HeliSockInstall	each	0	34	0.86		\$ 1,633.29		0 9				
			each	0				•	\$ -	0 9				
			each each	0					\$ - \$ -	0 9				
			each	0		_			\$ - \$ -	0 9				
			each	0				\$ -						
2-1	S2-E12 S2 - Installation of OPGW		Total struct	ture count:	0	KM		\$ 15,181.18	•	9	-		\$ 18,202.60	\$
	S2-E12 S2 - Installation of OPGW			_		_			•		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		+ 10,-0-100	•
	101													
	1.2 kg/m and		6680 kg / reel	Assume		3 km/day	405.54	Φ 0.007.50 I	ф.	ا ماء	,			
	Haul	Wire Hauling	each	0	9	5.00	\$ 405.51 \$ 1.282.13			0 9				
	Haul Prepare Pull site	Wire Hauling Pull Site Prep	each each	0	9 10	5.00 3.15	\$ 1,282.13	\$ 4,036.34	\$ -	0 9	-			
	Haul	Wire Hauling	each	0	9	5.00	\$ 1,282.13 \$ 2,790.88	\$ 4,036.34	\$ - \$ -	0 9	6 - 6 -			
	Haul Prepare Pull site	Wire Hauling Pull Site Prep	each each each	0	9 10	5.00 3.15	\$ 1,282.13 \$ 2,790.88 \$ -	\$ 4,036.34 \$ 10,233.23	\$ - \$ - \$ -	0 9	5 - 5 -			
	Haul Prepare Pull site	Wire Hauling Pull Site Prep	each each each each	0 0 0	9 10	5.00 3.15	\$ 1,282.13 \$ 2,790.88 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	5 - 5 - 5 - 5 -			
	Haul Prepare Pull site Pull In OPGW & Sag	Wire Hauling Pull Site Prep OPGW Install	each each each each each	0 0 0 0	9 10 15	5.00 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50 \$	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ -	\$ - \$ - \$ - \$ - \$ -	0 3 0 3 0 3 0 3 0 3	5 - 5 - 5 - 5 -			
	Haul Prepare Pull site Pull In OPGW & Sag	Wire Hauling Pull Site Prep OPGW Install	each each each each each each	0 0 0 0 0	9 10 15	5.00 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50 \$	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 - 5 - 5 - 5 -			
2-2	Haul Prepare Pull site Pull In OPGW & Sag	Wire Hauling Pull Site Prep OPGW Install	each each each each each each each each	0 0 0 0 0	9 10 15	5.00 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ - \$ 1,905.50 \$	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ - \$ - \$ - \$ - \$ -	0 9 0 9 0 9 0 9		-	\$ 17,430.21	\$
2-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and	Wire Hauling Pull Site Prep OPGW Install HellSockinstall	each each each each each each each Control Con	0 0 0 0 0 0 0 0	9 10 15 34 227	5.00 3.15 3.67 1.00 KM	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 8 0 8 0 8	6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -		\$ 17,430.21	\$
2-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul	Wire Hauling Pul Site Prep OPGW Install HellSockinstall Wire Hauling	each each each each each each each Control Con	0 0 0 0 0 0 0 0 0	9 10 15 34 227	5.00 3.15 3.67 1.00 KM 3 km/day 3.10	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ - \$ 1,905.50 \$ - \$ 18,202.60	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 284,916.9	0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		\$ 17,430.21	\$
2-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul Prepare Pull site	Wire Hauling Pul Site Prep OPGW Install HeliSockInstall Wire Hauling Pull Site Prep	each each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 15 34 227 9	5.00 3.15 3.67 1.00 KM 3 km/day 3.10 3.15	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ - \$ 18,202.60 \$ 1,255.14 \$ 4,036.34	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 916,248.7	0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		\$ 17,430.21	\$
2-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul	Wire Hauling Pul Site Prep OPGW Install HellSockinstall Wire Hauling	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 15 34 227	5.00 3.15 3.67 1.00 KM 3 km/day 3.10	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ - \$ 405.51 \$ 1,282.13 \$ 2,790.88	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ - \$ 18,202.60 \$ 1,255.14 \$ 4,036.34 \$ 10,233.23	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S	5 - 5 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	-	\$ 17,430.21	\$
2-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul Prepare Pull site	Wire Hauling Pul Site Prep OPGW Install HeliSockInstall Wire Hauling Pull Site Prep	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 15 34 227 9	5.00 3.15 3.67 1.00 KM 3 km/day 3.10 3.15	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 2,790.88 \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ - \$ 18,202.60 \$ 1,255.14 \$ 4,036.34 \$ 10,233.23 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 3,956,657.8 \$ 284,916.9 \$ 916,248.7 \$ 2,322,943.5 \$ -	0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S	5 - 5 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7	-	\$ 17,430.21	\$
2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul Prepare Pull site Pull In OPGW & Sag	Wire Hauling Pull Site Prep OPGW Install HeliSockInstall Wire Hauling Pull Site Prep OPGW Install	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 15 34 227 9 10 15	5.00 3.15 3.67 1.00 KM 3 km/day 3.10 3.15 3.67	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 2,790.88 \$ - \$ -	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ 1,8202.60 \$ 1,255.14 \$ 4,036.34 \$ 10,233.23 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 3,956,657.8 \$ 284,916.9 \$ 916,248.7 \$ 2,322,943.5 \$ - \$ -	0 S O S O S O S O S O S O S O S O S O S	5 - 5 - 6 - 7 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7	-	\$ 17,430.21	\$
-2	Haul Prepare Pull site Pull In OPGW & Sag Sock installation by Helicopter S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW 1.2 kg/m and Haul Prepare Pull site	Wire Hauling Pul Site Prep OPGW Install HeliSockInstall Wire Hauling Pull Site Prep	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 15 34 227 9	5.00 3.15 3.67 1.00 KM 3 km/day 3.10 3.15	\$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50 \$ - \$ 1,282.13 \$ 2,790.88 \$ - \$ 1,905.50	\$ 4,036.34 \$ 10,233.23 \$ - \$ 1,905.50 \$ 1,8202.60 \$ 1,255.14 \$ 4,036.34 \$ 10,233.23 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 3,956,657.8 \$ 284,916.9 \$ 916,248.7 \$ 2,322,943.5 \$ - \$ - \$ 432,548.5	0 S O S O S O S O S O S O S O S O S O S	5 - 5 - 5 - 5 - 5 - 7 - 7 - 7 - 7 - 7 -	-	\$ 17,430.21	\$



	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Moun					Crew Cost						Total Unit Cost	
Payment			Units	1	Hours per			_				Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::E12-3	S4-E12 S4 - Installation of OPGW	Total struc	ture count:	0	KM			\$	- \$	17,430.21	•	- \$ 17,430.21	l ¢
VE12-3	S4-E12 S4 - Installation of OPGW	Total Struc	ture count.		LZIVI			Ψ	- 	17,430.21	Φ	- \$ 17,430.21	-
		880 kg / reel	Assume	3	km/day								
	Haul Wire Hauling	each	(3.10	\$ 405.51		\$	- 0 \$	=			
	Prepare Pull site Prep	each	(3.15	\$ 1,282.13	4,036.34	•	- 0 \$				
	Pull In OPGW & Sag	each	(3.67	\$ 2,790.88	10,233.23		- 0 \$	-			
		each each		,		\$ - \$	-	\$	- 0 \$ - 0 \$	-			
	Sock installation by Helicopter	each		1	1.00	\$ 1,905.50	1,905.50	*	- 0 \$	<u> </u>			
	OOK Installation by Trollooptol reliscullistell	each			1.00	\$ - 9	- 1,000.00	T	- 0 \$	-			
		each	(\$ - 9	-	\$	- 0 \$	-			
		each	()		\$ - 9	-	\$	- 0 \$				
		each	()		\$ - 9			- 0 \$				
							17,430.21	\$	- \$	-			
V::E12-4	S5-E12 S5 - Installation of OPGW	Total struc	ture count:	0	KM			\$	- \$	16,915.28	\$	- \$ 16,915.28	-
VC12 4	S5-E12 S5 - Installation of OPGW	10141 01140	rtaro ooann.					•	ų.	10,010120	•	Ψ 10,010120	*
		880 kg / reel	Assume		km/day						,		
	Haul Wire Hauling	each	(1.83	\$ 405.51		\$	- 0 \$	<u> </u>			
	Prepare Pull site Prep Pull In OPGW & Sag OPGW Install	each	(3.15	\$ 1,282.13 \$ 2,790.8 8 \$, , , , , , ,	\$	- 0 \$ - 0 \$				
	Pull In OPGW & Sag OPGW Install	each each			3.67	\$ 2,790.88		. •	- 0 \$ - 0 \$				
		each					-	T	- 0 \$				
	Sock installation by Helicopter	each			1.00	\$ 1,905.50			- 0 \$				
		each	()		\$ - 9			- 0 \$				
		each	(\$ - 9		<u> </u>	- 0 \$				
		each	(\$ - 9	-		- 0 \$				
		each	()		- 3			- 0 \$ - \$	-			
			I		A 1		10,913.20	Ψ	- ψ				
V::E13	S1-E13 OPGW Continuity tests before and after stringing	Total struc	ture count:	1	LS			\$ 125,737	7.53 \$	125,737.53	\$	- \$ 125,737.53	-
	S1-E13 OPGW Continuity tests before and after stringing	4.4											
	Assume number of reels = Test OPGW Splice	44 each	T	42	422.40	\$ 297.67	125,737.53	\$ 125,737	7.53 1 \$	125,737.53	Ī		
	1 GSt OPGW Spice	each		42	422.40	\$ - 9			- 1 \$				
		each				\$ - 9		_	- 1 \$				
		each				\$	-	\$	- 1 \$	-			
		each				· ·	-	'	- 1 \$	-			
		each				\$ - 9	T .	'	- 1 \$				
		each each	7			\$ - 9	-	,	- 1 \$ - 1 \$	-			
		each				Ť		*	- 1 \$	<u> </u>			
	10	512			l	9	125,737.53	*		125,737.53			
	\$ 11	96									-		
V::E14	S1-E14 OPGW splicing and tests including loss analysis	Total struc	cture count:	50	EA			\$ 313,864	1.80	6,277.30	\$	- \$ 6,277.30	-
	S1-E14 OPGW splicing and tests including loss analysis												
	Assume number of splice points =	1 @	1!	Minutes/Fibre =	12.00	Hours per 48 fibre splice							
	Haul and install Fibre Splice Box	each	50	12	4.00	\$ 676.30	\$ 2,705.21	\$ 135,260	0.35 50 \$	2,705.21			
	·	each	50			\$ - \$	-	\$	- 50 \$	=			
	Splice and test Fibre OPGW Splice	each	50	42	12.00	\$ 297.67	3,572.09						
		each	50			\$ - 9	-		- 50 \$				
		each	50			\$ - S	r		- 50 \$ - 50 \$				
		each each	50			¥ .	- -		- 50 \$ - 50 \$	<u> </u>	1		
		each	50			\$ - 9		-	- 50 \$				
		each	50			\$ - 9	T.	*	- 50 \$		†		
		•				9	6,277.30	\$ 313,864		6,277.30			
													



	kV HVdc Line Construction Front 2 (Long Range Mounta					Crew Cost						Total Unit Cost	
Dogorintics		<u> </u>	Jnits Total	0	Hours per	Harris D. (11-34 0	Cubtatal	Linita	Limit On 1	Motoriala	Manhours and	Total Materials
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	ı otal iviaterials
S1-E15 OPGW e S1-E15 OPGW e		Total struct	ure count:	1	LS		1	\$ 28,576.71		\$ 28,576.71 \$	-	\$ 28,576.71	\$
Test	OPGW Splice	each	1	42	96.00	\$ 297.67	\$ 28,576.71	\$ 28,576.71	1	\$ 28,576.71			
		each	1			\$ -		\$ -	1	\$ -			
		each	1				+	\$ -	1	·			
		each	1				\$ -	\$ -	1				
		each					T	\$ -	1				
		each each	1				· -	\$ - \$ -	1				
		each	1					\$ -	1	·			
		each					·	\$ -	1				
		0					\$ 28,576.71						
S1-F Miscella	aneous Tower Attachments and Accessories (S1-Fx)												
S1-F1 Install 18'	" Aerial marker cones ' Aerial marker cones	Total struct	ure count:	5	EA			\$ 3,381.51		\$ 676.30 \$	-	\$ 676.30	\$
Haul and Install	Tie-in	each	5	12	1.00	\$ 676.30	\$ 676.30	\$ 3,381.51	5	\$ 676.30			
riadi dila iliotali	ווי טוו	each	5		1.00			\$ -	5				
		each	5			<u> </u>		\$ -	5				
		each	5			\$ -	\$ -	\$ -	5	\$ -			
		each	5				\$ -	\$ -	5				
		each	5				\$ -	\$ -	5				
		each	5	i <mark>l</mark>		\$	\$ -	\$ -	5	\$ -			
		· .	_			Φ.	^	*					
		each	5					\$ -	5				
		each each	5 5			\$ -		\$ -	5				
S1-G1 Framing a S1-G1 Framing a Wood pole with c	g and Setting of Wood Poles (S1-Gx) and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50555 crossarm and V brace. Wire assembly on extension bracket	each Total struct 73-4633-4ZDD-	ure count: 0011	0	EA	\$	\$ - \$ 676.30	\$ - \$ 3,381.51 \$ -	5	\$ - \$ 676.30 \$ 5,023.96 \$	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket	Total struct 73-4633-4ZDD-	ure count: 0011	0	2.50	\$ -	\$ - \$ 676.30 \$ 1,102.60	\$ - \$ 3,381.51 \$ -	5	\$ - \$ 676.30 \$ 5,023.96 \$	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Heating Wood Assembly	Total struct 73-4633-4ZDD- each each	ure count: 0011	0 1 48	2.50 2.00	\$ - \$ 441.04 \$ 710.52	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04	\$ - \$ 3,381.51 \$ - \$ - \$ -	0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Hauding Wood Assembly Wood Erection	Total struct 73-4633-4ZDD- each each each	ure count: 0011	0 1 48 49	2.50 2.00 1.50	\$ 441.04 \$ 710.52 \$ 1,216.00	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ -	0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Heating Wood Assembly	Total struct 73-4633-4ZDD- each each each each each	ure count: 0011	0 1 48 49 12	2.50 2.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ -	0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Hauding Wood Assembly Wood Erection	Total struct 73-4633-4ZDD- each each each each each each	ure count: 0011	0 1 48 49 12	2.50 2.00 1.50	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ -	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ - \$ - \$ - \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Hauding Wood Assembly Wood Erection	Total struct 73-4633-4ZDD- each each each each each	ure count: 0011	0 1 48 49 12	2.50 2.00 1.50	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ -	\$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Hauding Wood Assembly Wood Erection	Total struct 73-4633-4ZDD- each each each each each each each	ure count: 0011	0 1 48 49 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ -	\$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Hauding Wood Assembly Wood Erection	For a struct road	ure count: 0011	0 1 48 49 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ -	\$ - 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 0 0 0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection	Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011	0 1 48 49 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ -	\$ - \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ -	\$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 0 0 0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2,300.00	\$ 7,323.96	\$
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set Tie in	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Heauling Wood Assembly Wood Erection Tie -in and Setting of Single Pole Light angle (1 - 10 deg) with Guys as	Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011 0010 000 000 000 000 000	0 1 48 49 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ -	\$ - 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 0 0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Í	\$ 7,323.96 \$ 10,120.91	
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Heating Wood Assembly Wood Frection Tie -In	rotal struct 73-4633-4ZDD- each each each each each each each each	ure count: 0011 0010 000 000 000 000 000	0 1 48 49 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ -	\$ - 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 0 0 0 0 0 0	\$ 676.30 \$ 5,023.96 \$ \$ - \$	Í		
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set Tie in S1-G2 Framing a Wood pole with o	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per I	rotal struct 73-4633-4ZDD- each each each each each each each each	ure count: 0011 0010 000 000 000 000 000	0 1 48 49 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ -	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Í		
S1-G2 Framing a Wood pole with o Haul Frame the Struct Set Tie in S1-G2 Framing a Wood pole with o Haul	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Crossarm and V brace. Wire assembly on extension bracket. One side	each Total struct 73-4633-4ZDD- each each each each each each each Total struct Total struct Total struct Total struct Total struct Total struct Total struct Total struct Total struct	ure count: 0011 C C C C C C C C C C C C C C C C C	0 1 48 49 12 12 0 012	2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ -	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Í		
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a Wood pole with o Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Crossarm and V brace. Wire assembly on extension bracket. One side	each Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011 C C C C C C C C C C C C C C C C C	0 1 48 49 12 0 012 1 48 49 49	2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - \$ 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Í		
S1-G1 Framing a Wood pole with of Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a Wood pole with of Haul Frame the Struct Set Anchoring	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling	each Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011 0011 0000 0000 0000 0000 0000	0 1 48 49 12 0 012 1 48 49 35	2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - 676.30 \$ 5,023.96 \$ \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Í		
S1-G1 Framing a Wood pole with of Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a S1-G2 Framing a Wood pole with of Haul Frame the Struct Set	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per I crossarm and V brace. Wire assembly on extension bracket. One side ture Wood Assembly Wood Assembly Wood Erection	rotal struct 73-4633-4ZDD- each each each each each each each each	ure count: 0011 C C C C C C C C C C C C C C C C C	0 1 48 49 12 0 012 1 48 49 35 12	2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ 699.24 \$ 676.30	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 5,023.96	\$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ -	Í		
S1-G1 Framing a Wood pole with of Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a Wood pole with of Haul Frame the Struct Set S1-G2 Framing a Wood pole with of Haul Frame the Struct Set Anchoring	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per I crossarm and V brace. Wire assembly on extension bracket. One side ture Wood Assembly Wood Assembly Wood Assembly Wood Assembly Wood Erection Ancher Crew	each Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011 C C C C C C C C C C C C C C C C C	0 1 48 49 12 0 012 1 48 49 35 12	2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ 699.24 \$ 676.30 \$ -	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ -	\$ 3,381.51 \$ - \$ 3,381.51 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 0 0 0 0 0 0 0 0 0	\$ -	Í		
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a Wood pole with o Haul Frame the Struct Set Anchoring	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per I crossarm and V brace. Wire assembly on extension bracket. One side ture Wood Assembly Wood Assembly Wood Assembly Wood Assembly Wood Erection Ancher Crew	each Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011 C C C C C C C C C C C C C C C C C	0 1 48 49 12 0 0 12 1 48 49 35 12	2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ 1,216.00 \$ 699.24 \$ 676.30 \$ - \$ -	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	\$ -	Í		
S1-G1 Framing a S1-G1 Framing a Wood pole with o Haul Frame the Struct Set Tie in S1-G2 Framing a S1-G2 Framing a Wood pole with o Haul Frame the Struct Set Anchoring	and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 crossarm and V brace. Wire assembly on extension bracket Hauling Wood Assembly Wood Erection Tie -In and Setting of Single Pole Light angle (1 - 10 deg) with Guys as and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per I crossarm and V brace. Wire assembly on extension bracket. One side ture Wood Assembly Wood Assembly Wood Assembly Wood Assembly Wood Erection Ancher Crew	each Total struct 73-4633-4ZDD- each each each each each each each eac	ure count: 0011 C C C C C C C C C C C C C C C C C	0 1 48 49 12 0 0 12 1 48 49 35 12	2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	\$ - 676.30 \$ 5,023.96 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Í		



NALCOR 350 kV HVdc Line Constru	uction Front 2 (Long Range Mounta		.,			Crew Cost						Total Unit Cost	
Description		Un	Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S1-G3 Framing and Setting of Single Pol	lo Hoovy angle (10 20 dog) with Guye	as Total structur	o count:	0	EA			-	\$	16,922.27 \$	2,300.00	\$ 19,222.27	¢
S1-G3 Framing and Setting of Single Pole	Heavy angle (10 - 30 deg) with Guys as p	per Drawing 50557	'3-4633-4ZDD-00		_ EA			-	Ψ	10,922.27	2,300.00	J 19,222.21	J
Wood pole Heavy angle 4 anchors , assem													
Haul	Hauling	each	0	1		\$ 441.04				-			
Frame the Structure	Wood Assembly	each	0	48	3.00	\$ 710.52							
Set	Wood Erection	each	0	49		\$ 1,216.00							
Anchoring	Anchor Crew	each	0	35	16.00	\$ 699.24			0 \$	 			
Tie in	Tie -in	each	0	12	1.00	\$ 676.30				-			
		each each	0			\$ - \$ -	\$ - } \$ - }			-			
		each	0			\$ -		5 -		-			
		each	0			\$ -		5 -	-	_			
		odon	<u> </u>		<u> </u>	Ψ	\$ 16,922.27			-			
							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
S1-G4 Framing and Setting of Single Pol	le Dead-end (30 - 90 deg) with Guys as	Total structur	e count:	0	EA			-	\$	32,277.98 \$	2,300.00	\$ 34,577.98	\$
S1-G4 Framing and Setting of Single Pole	Dead-end (30 - 90 deg) with Guys as per	Drawing 505573-4	4633-4ZDD-00 <mark>21</mark>		_							•	
Single pole DE 90 degree, 6 anchors, jump													
Haul	Hauling	each	0	1	2.50	\$ 441.04				-			
Frame the Structure	Wood Assembly	each	0	48	6.00	\$ 710.52							
Set	Wood Erection	each	0	49		\$ 1,216.00							
Anchoring	Anchor Crew	each	0	35	24.00	\$ 699.24				=			
Dead end	Deadends	each	0	13	6.00	\$ 1,384.42				-			
		each	0			\$ -	\$ - :						
- 			0			-	\$ -			-			
		each				Φ.			Α .	i			
		each	0			-	\$ -						
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		each	0			7		-	0 \$				
C4 C5 Froming and Setting of Single Dela	In Electing Dood and (0 . 1 dag) with	each each	0		EA	7	\$ 32,277.98	-	0 \$	-	2 200 00	¢ 22.200.40	¢
S1-G5 Framing and Setting of Single Pole	le Floating Dead-end (0 - 1 deg) with	each each Total structur	0 0	0	EA	7	\$ -	-	0 \$	-	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole	le Floating Dead-end (0 - 1 deg) with Floating Dead-end (0 - 1 deg) with Guys a	each each Total structur	0 0		EA	7	\$ 32,277.98	-	0 \$	-	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors	Floating Dead-end (0 - 1 deg) with Guys a	each each Total structur as per Drawing 50	0 0 0 re count: 5573-4633-4ZDD		4 4	\$	\$ 32,277.98	- -	0 \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul	Floating Dead-end (0 - 1 deg) with Guys a	each each Total structur as per Drawing 50 each	0 0 0 ee count: 5573-4633-4ZDD	-0013 1	2.50	\$ 441.04	\$ 32,277.98 \$ 1,102.60	- - -	0 \$ \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly	each each Total structur as per Drawing 50 each each	0 0 0 ee count: 5573-4633-4ZDD	1 48	2.50 6.00	\$ 441.04 \$ 710.52	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13		0 \$ \$ \$ 0 \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection	Total structur as per Drawing 50 each each each each	0 0 0 ee count: 5573-4633-4ZDD	1 48 49	2.50 6.00 1.50	\$ 441.04 \$ 710.52 \$ 1,216.00	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01		0 \$ \$ \$ 0 \$ 0 \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly	each each Total structur as per Drawing 50 each each	0 0 0 0 0 5573-4633-4ZDD	1 48	2.50 6.00 1.50 8.00	\$ 441.04 \$ 710.52	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90		0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew	rotal structur as per Drawing 50 each each each each each	0 0 0 0 0 0 0 0 0	-0013 1 48 49 35	2.50 6.00 1.50	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90		0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew	each each Total structur as per Drawing 50 each each each each each each	0 0 0 0 0 5573-4633-4ZDD 0 0 0	-0013 1 48 49 35	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55	6 - 6 - 6 - 6 - 6 - 6 - 6 -	0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew	each each Total structur as per Drawing 50 each each each each each each each	0 0 0 0 0 5573-4633-4ZDD 0 0 0	-0013 1 48 49 35	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ -		0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 5573-4633-4ZDD 0 0 0 0	-0013 1 48 49 35	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ -	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ -		0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 5573-4633-4ZDD 0 0 0 0 0	-0013 1 48 49 35	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ -	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ -		0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,090.19 \$	2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew Deadends	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 5573-4633-4ZDD 0 0 0 0 0	-0013 1 48 49 35	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ -	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19		0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 \$ - - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew Deadends Dead-end to tap to HVdc Tower in	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 0 0 0 0 0 0 0 0 0	-0013 1 48 49 35 13	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ -	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ -		0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 \$ - - - - - - - - -	2,300.00 2,300.00		
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole De	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew Deadends Dead-end to tap to HVdc Tower in ead-end to tap to HVdc Tower in Labrado	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 0 0 0 0 0 0 0 0 0	-0013 1 48 49 35 13	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ -	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19		0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 \$ - - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole De Two pole DE 90 degree, 8 anchors, jumper	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew Deadends Dead-end to tap to HVdc Tower in ead-end to tap to HVdc Tower in Labradors on extension	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0013 1 48 49 35 13 0 D-0061	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ - \$ -	\$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19		0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$	21,090.19 \$			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole DE Two pole DE 90 degree, 8 anchors, jumper Haul	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew Deadends Dead-end to tap to HVdc Tower in ead-end to tap to HVdc Tower in Labradors on extension	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0013 1 48 49 35 13 0 D-0061	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ - \$ -	\$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19		0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ \$ \$	21,090.19 \$			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole DE Two pole DE 90 degree, 8 anchors, jumper Haul Frame the Structure	Floating Dead-end (0 - 1 deg) with Guys a Hauling Wood Assembly Wood Erection Anchor Crew Deadends Dead-end to tap to HVdc Tower in ead-end to tap to HVdc Tower in Labradors on extension Hauling Wood Assembly	each each Total structur as per Drawing 50 each each each each each each each eac	0 0 0 0 0 5573-4633-4ZDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0013 1 48 49 35 13 0 D-0061 1 48	2.50 6.00 1.50 8.00 6.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 699.24 \$ 1,384.42 \$ - \$ - \$ - \$ -	\$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$ 1,102.60 \$ 4,263.13		0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	21,090.19 \$			
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	S1-I3 Optional cost for mulching given area instead of salvaging S1-I3 Optional cost for mulching given area instead of salvaging each each each each each each each each	structure cou	17 Int: 1292 1292 1292 1292 1292 1292 1292 129	KM	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1292 1292 1292 1292 1292 1292 1292 1292	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			



NALCOR 350 kV HVdc Line Const	truction Front 2 (Long Range Mountai	ns)				Crew Cost						Total Unit Cost	
	· ·		Jnits		Hours per							Manhours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
S1-I5 Slack Span Connections - Installa	ation of all Conductor and ORCW from	Total structi	uro count:	1	LS			\$ 47,109.6	0	\$ 47,109.68 \$		\$ 47,109.68	¢
	on of all Conductor and OPGW from Termin				L3			\$ 47,109.0	00	\$ 47,109.00 \$	-	\$ 47,109.00	Þ
or to clack opan connections inclanati	ion of all contactor and of over home forming	ar rower to the	o depotation out	iu y									
haul Insulators and Travellers	Haul Travellers&Glass	each	1	7	3.00	\$ 636.64			1 1	\$ 1,909.91			
Hang Travellers	Hang Travellers	each	1	8	1.00	\$ 1,444.07							
Install Conductor	Stringing	each	1	11	5.00	\$ 5,977.88							
Install OPGW	OPGW Install	each	1	15	1.00	\$ 2,790.88	\$ 2,790.88						
Dead-end	Deadends	each	1	13	8.00	\$ 1,384.42							
		each	1			\$ -		\$ -		\$ -			
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		eacii					\$ 47,109.68			\$ 47,109.68			
							Ψ 47,100.00	Ψ 41,103.0		Ψ 1,103.00			
S1-I6 Slack Span Connections - Installa	ation of all Conductor and OPGW/ADSS	Total structi	ure count:	0	LS			\$ -		\$ 26,664.57 \$	-	\$ 26,664.57	\$
	on of all Conductor and OPGW/ADSS from									, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,,,,,	•
					-					<u></u>			
haul Insulators and Travellers	Haul Travellers&Glass	each	0		3.00	\$ 636.64				\$ -			
Hang Travellers	Hang Travellers	each	0		1.00	\$ 1,444.07				\$ -			
Install Conductor	Stack Stringing	each	0		5.00	\$ 2,442.63		\$ -		\$ -			
Install OPGW / ADSS	OPGW Install	each	0		1.00	\$ 2,790.88							
Dead-end	Deadends	each	0		6.00	\$ 1,384.42		· —					
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S1-I7 Supply and Installation of Culvert S1-I7 Supply and Installation of Culvert -		each	0		LM	T	\$ - \$ 26,664.57	\$ - \$ -	0	\$ - \$ -		\$ -	\$
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	NALCOR 350 kV HVdc Line Construction Front 2 (Long Range Mountain	<mark>า</mark> ร)				Crew Cost						Total Unit Cost	
Payment		Units		Hour	rs per							Manhours and	
	Description		Total Cre		nit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::109	S1-I9 Supply and Installation of Culvert - 1600 mm S1-I9 Supply and Installation of Culvert - 1600 mm	Total structure c	ount:	<u>19</u> L	.M			\$ -	\$	-	-	\$ -	-
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V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm	Total structure c	ount:	<u>19</u> L	.M			\$ -	\$	-	-	\$ -	\$ -
	S1-I10 Supply and Installation of Culvert - 2000 mm												
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V::I11	S1-I11 Supply and Installation of Culvert - 2400 mm S1-I11 Supply and Installation of Culvert - 2400 mm	Total structure c	ount:	<u>19</u> L	.М			\$ -	\$	-	-	\$ -	\$ -
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		each	19		9	\$ -	\$ -	\$ -		_	†		
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		each	19			\$ -			19 \$	-	†		
		each	19		9	\$	\$ -	\$ -	19 \$	-	7		
		each	19		9	\$ -	\$ -	\$ -		-	7		
		each	19			\$ -	\$ -	\$ -	19 \$	-	1		
		each	19		Ş	-	\$ -	\$ -	19 \$	-			
							\$ -	\$ -	\$	-			
V::I12	S1-I12 Supply and Installation of Culvert - 3000 mm	Total structure c	ount:	<u>19</u> L	.M			\$ -	\$	-	-	\$ -	-
	S1-I12 Supply and Installation of Culvert - 3000 mm												
		each	19		3	\$ -	\$ -	\$ -	19 \$				
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	ALCOR 350 kV HVdc Line Constructi	<mark>ion Front 2 (Long Range Mountai</mark>				ļ.,	Crew Cost						Total Unit Co	
t D∈	escription		Ur	nits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours at Materials	
S1	1-I13 Assembly and Installation of Founda 1-I13 Assembly and Installation of Foundatio	ation Type A1-1/1A, per kg, to be used on Type A1-1/1A, per kg, to be used for which the state of the state o	Total structur	re count:	1	КG			1.	67 \$	1.67 \$	-	\$	1.67 \$
На	aul	Foundation Haul	each	1	17	0.00110	\$ 441.04	\$ 0.49 \$	0.	49 1 \$	0.49			
	ssemble	Grillage Installation	each	1	20	0.00118			1.		1.18			
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S1	1-I14 Assembly and Installation of Founda	ation Type A2-1/1A, per kg. to be used	I Total structu	re count:	1	KG		1.07		67 \$	1.67 \$	-	\$	1.67 \$
S1	1-I14 Assembly and Installation of Foundatio	n Type A2-1/1A, per kg, to be used for	weight increases	s or decreases		_					,			
	aul	Foundation Haul	each	1	17	0.00110	\$ 441.04				0.49			
As	ssemble	Grillage Installation	each	1	20	0.00118	\$ 1,002.72							
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S1 S1	1-I15 Assembly and Installation of Founda 1-I15 Assembly and Installation of Foundatio	ation Type A3-1/1A, per kg, to be used on Type A3-1/1A, per kg, to be used for t	each each	re count:	1		*	\$ - \$	- / 1.	1 \$	_	-	\$	1.67 \$
S1	1-I15 Assembly and Installation of Founda 1-I15 Assembly and Installation of Foundatio	ation Type A3-1/1A, per kg, to be used on Type A3-1/1A, per kg, to be used for v	each each	re count:	17		*	\$ - \$ \$ 1.67	1.	1 \$ 67 \$	1.67 \$		\$	1.67 \$
S1 Ha	1-I15 Assembly and Installation of Foundatio	on Type A3-1/1A, per kg, to be used for v	each each I Total structur weight increases	re count:		KG	\$	\$ - \$ \$ 1.67	1. 1.	1 \$ \$ 67 \$ \$ 49 1 \$ 18 1 \$	1.67 \$		\$	1.67 \$
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S1 Ha	1-I15 Assembly and Installation of Foundatio aul	on Type A3-1/1A, per kg, to be used for v	each each I Total structur weight increases each each each each each each	re count:	17	KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72	\$ - \$ \$ 0.49 \$ \$ 1.18 \$ \$ - \$ \$ - \$	0. 1.	1 \$ \$ 67 \$ \$ 49 1 \$ 18 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$	1.67 \$ 0.49 1.18		\$	1.67 \$
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S1 Ha	1-I15 Assembly and Installation of Foundatio aul	on Type A3-1/1A, per kg, to be used for v	each each i Total structur weight increases each each each each each each each eac	re count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ -	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	1. 0. 1.	1 \$ \$ 67 \$ \$ 67 \$ \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1	1.67 \$ 0.49 1.18		\$	1.67 \$
S1 Ha	1-I15 Assembly and Installation of Foundatio aul	on Type A3-1/1A, per kg, to be used for v	each each each each each each each each	re count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ 5	\$ - \$ \$ 1.67 \$ \$ \$ 1.67 \$ \$ \$ \$ 1.67 \$ \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ \$ 1.18 \$ \$ 1.	0. 1.	1 \$ \$ 67 \$ \$ 49 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1	1.67 \$ 0.49 1.18		\$	1.67 \$
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NALCOR 350 KV HVdc Line C	Construction Front 2 (Long Range Mounta		-14-		<u></u>	Crew Cost						Total Unit Cost	
Description		U	nits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S1-I17 Assembly and Installation of	of Foundation Type B1-1/1A, per kg, to be used Foundation Type B1-1/1A, per kg, to be used for	d Total structu	re count:	1	KG			\$	1.67	\$ 1.67 \$	-	\$ 1.67	\$
	Touridation Type 21 1717, por hg, to be deed for												
Haul	Foundation Haul	each	1	17	0.00110			\$	0.49 1	\$ 0.49			
Assemble	Grillage Installation	each	1	20	0.00118				1.18 1				
		each each	1			\$ -	:	*	- <u>1</u>				
		each	1		+	\$ -			- 1				
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							\$ 1.67	\$	1.67	\$ 1.67			
									1.00	A 4.00 A		.	•
S1-I18 Assembly and Installation of	of Foundation Type B2-1/1A, per kg, to be used	d Total Structu	re count:	1	KG			\$	1.39	\$ 1.39 \$	-	\$ 1.39	\$
51-118 Assembly and Installation of	Foundation Type B2-1/1A, per kg, to be used for	weight increase	s or decreases										
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04	\$ 0.41	\$ (0.41 1	\$ 0.41			
Assemble	Grillage Installation	each	1	20	0.00098				0.98 1				
		each	1			\$ -	\$ -	_	- 1				
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		each	1			\$ -		\$	- 1				
		each	1			\$ -	-	\$	- 1				
		each	1			\$ -			- 1				
		each	1			\$ -			- 1				
		each	1 1			\$		\$	- 1				
S1-I19 Assembly and Installation of	of Foundation Type C1-1, per kg, to be used for Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases of	re count:	1/	KG	\$	\$ 1.39	\$ \$	- 1 1.39 1.67	\$ - \$ 1.39 \$ 1.67 \$	· -	\$ 1.67	\$
S1-I19 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases of each	re count:	17	0.00110	\$ 441.04	\$ 1.39 \$ 0.49	\$ \$ \$	- 1 1.39 1.67	\$ - \$ 1.39 \$ 1.67 \$	· -	\$ 1.67	\$
S1-I19 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases or each each	re count: decreases		A 1	\$ 441.04 \$ 1,002.72	\$ 1.39 \$ 0.49 \$ 1.18	\$ \$ \$ \$	- 1 1.39 1.67	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18	: -	\$ 1.67	\$
S1-I19 Assembly and Installation of Haul	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases or each each each	re count: decreases	17	0.00110	\$ 441.04	\$ 1.39 \$ 0.49 \$ 1.18 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ -	; -	\$ 1.67	\$
S1-I19 Assembly and Installation of Haul	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases or each each each each	re count: decreases	17	0.00110	\$ 441.04 \$ 1,002.72	\$ 1.39 \$ 0.49 \$ 1.18 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$; <u>-</u>	\$ 1.67	\$
S1-I19 Assembly and Installation of Haul	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases or each each each each each each	re count: decreases	17	0.00110	\$ 441.04 \$ 1,002.72	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ - 5 \$ - 5	; -	\$ 1.67	\$
S1-I19 Assembly and Installation of Haul	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases or each each each each	re count: decreases	17	0.00110	\$ 441.04 \$ 1,002.72	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ -	\$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ -	; -	\$ 1.67	\$
S1-I19 Assembly and Installation of Haul	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases of each each each each each each each	re count: decreases	17	0.00110	\$ 441.04 \$ 1,002.72	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	-	\$ 1.67	\$
S1-I19 Assembly and Installation of Haul	Foundation Type C1-1, per kg, to be used for we	each or Total structu ight increases of each each each each each each each	re count: decreases	17	0.00110	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 - 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ \$ 1.18 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$	-	\$ 1.67	\$
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S1-I19 Assembly and Installation of Haul Assemble	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation	each or Total structu ight increases or each each each each each each each eac	re count: decreases	17	0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ 1.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 1- 1	\$ - 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ - \$ \$			
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S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each or Total structu ight increases of each each each each each each each eac	re count: decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ 1.39 \$ 1.67 \$ \$ 0.49 \$ \$ 1.18 \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each or Total structu ight increases of each each each each each each each eac	re count: decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1.39 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 1.67 1.67	\$ -\ \$ 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\			
S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each each each each each each each each	re count: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.39 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 1.67 1.67 1.67	\$ -\ \$ 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\			
S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each or Total structu ight increases of each each each each each each each eac	re count: decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 1.67 1.67	\$ -\ \$ 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\			
S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each each	re count: decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 1.67 1.67 1.67	\$ -\ \$ 1.39 \$ 1.67 \$ \$ 0.49 \$ 1.18 \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\ \$ -\			
S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each or Total structu ight increases of each each each each each each each eac	re count:	17 20 1 17 20	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 - 1 1.67 1.67 0.49 1 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ 1.39 \$ 1.67 \$ \$ 0.49 \$ \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$			
S1-I19 Assembly and Installation of Haul Assemble S1-I20 Assembly and Installation of S1-I20 Assembly and Installation of	Foundation Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation of Foundation Type C2-1, per kg, to be used for Foundation Type C2-1, per kg, to be used for we	each each	re count:	17 20 1 17 20	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1 1.39 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 1.67 1.67 1.67	\$ 1.39 \$ 1.67 \$ \$ 0.49 \$ \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$			



:	COR 350 kV HVdc Line Construction			!4		—	Crew Cost						Total Unit Cost	
Descrip	ription		U	nits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S1-I21 S1-I21	11 Assembly and Installation of Foundati	ion Type D1-1, per kg, to be used for	or Total structu	ıre count: r decreases	1	KG			\$ 1	1.39	\$ 1.39 <mark>\$</mark>	-	\$ 1.39	\$
	•				47	0.00000	I &	Φ 0.44			A 0.44			
Haul Assemb		Foundation Haul	each each	1 1	17 20	0.00092 0.00098			\$ 0	0.41 1	\$ 0.41 \$ 0.98			
Assemi	mble	Grillage Installation	each	1	20	0.00096				- 1				
			each	1				\$ -	\$					
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			each	1			\$ -	\$ -	\$	- 1	\$ -			
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			each	1			\$ -	\$ -		- 1	\$ -			
								\$ 1.39	\$ 1	1.39	\$ 1.39			
													A 1.5-	
S1-I22	2 Assembly and Installation of Foundation	ion Type D2-1, per kg, to be used for	or Total structu	ire count:	1	KG KG			\$ 1	1.67	\$ 1.67 \$	-	\$ 1.67	\$
\$1-122	2 Assembly and Installation of Foundation	Type D2-1, per kg, to be used for we	eignt increases o	r decreases										
Haul		Foundation Haul	each	11	17	0.00110	\$ 441.04	\$ 0.49	\$	0.49 1	\$ 0.49			
Assemb		Foundation Haul Grillage Installation	each	1	20	0.00118				1.18 1				
7.0001111	mble	Gillage Installation	each	1	20	0.00110	, , , , , , , , , , , , , , , , , , , ,		_	- 1				
			each	1						- 1				
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			each	1			a	Ψ		- 1 1				
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							\$ -	\$ -	\$	- 1 - 1	\$ -			
S1-I23 S1-I23	3 Assembly and Installation of Foundat i 3 Assembly and Installation of Foundation	i on Type E1-1, per kg, to be used f v Type E1-1, per kg, to be used for we	each each or Total structu	ire count:	1	KG	\$ -	\$ - \$ - \$ 1.67	\$ \$ \$	- 1 - 1 1.67	\$ - \$ -	-	\$ 1.67	\$
S1-I23 S1-I23	3 Assembly and Installation of Foundation	ion Type E1-1, per kg, to be used for We Type E1-1, per kg, to be used for we Foundation Haul	each each or Total structu	ire count:	1	KG 0.00110	\$ - \$	\$ - \$ - \$ 1.67	\$ 1 \$ 1	- 1 - 1 1.67 1.67	\$ - \$ - \$ 1.67 \$ 0.49	-	\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structuring the increases of	Ire count:		4 4	\$ - \$ - \$ 441.04 \$ 1,002.72	\$ - \$ - \$ 1.67 \$ 0.49 \$ 1.18	\$ 1 \$ 1	- 1 - 1 1.67 1.67	\$ - \$ - \$ 1.67 \$ 1.67 \$ 0.49 \$ 1.18		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structu eight increases or each each each	r decreases	17	0.00110	\$ - \$ - \$ 441.04 \$ 1,002.72 \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ -	\$ 1 \$ 1 \$ 0 \$ 1	- 1 - 1 1.67 1.67 1.67	\$ - \$ - \$ 1.67 \$ 1.67 \$ 0.49 \$ 1.18 \$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structu eight increases or each each each each each	r decreases	17	0.00110	\$ - \$ - \$ 1,002.72 \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ -	\$ 1 \$ 1 \$ 0 \$ 1 \$ 1	- 1 - 1 1.67 1.67 0.49 1 1.18 1 - 1	\$ - \$ 1.67 \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structuoight increases or each each each each each each	r decreases	17	0.00110	\$ 441.04 \$ 1,002.72 \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ -	\$ 1 \$ 1 \$ 1 \$ 1 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 - 1.67 - 1 - 1 - 1	\$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structueight increases of each each each each each each each each	r decreases	17	0.00110	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ 5	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ -	\$ 1 \$ 1 \$ 0 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 - 1.67 - 1 - 1 - 1 - 1	\$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structure each each each each each each each each	r decreases	17	0.00110	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ 5	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 0 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 0.49 1 1.18 1 - 1 - 1 - 1	\$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structure each each each each each each each each	r decreases	17	0.00110	\$ - 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 0 \$ 1 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 - 1.67 - 1 - 1 - 1 - 1 - 1 - 1	\$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structure each each each each each each each each	r decreases	17	0.00110	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1	\$ -		\$ 1.67	\$
S1-I23	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we	each each or Total structure each each each each each each each each	r decreases	17	0.00110	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.68 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1	\$ -		\$ 1.67	\$
S1-I23 Haul Assemb	3 Assembly and Installation of Foundation	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation	each each or Total structu eight increases of each each each each each each each each	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67		\$ 1.67	
S1-I23 Haul Assemt	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation	each each each each each each each each	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.67	\$ -			
S1-I23 Haul Assemt S1-I24 S1-I24 Haul	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation	each each or Total structure eight increases or each each each each each each each eac	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 - 1.67 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	\$ -			
S1-I23 Haul Assemt	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we	each each or Total structure eight increases or each each each each each each each eac	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.67 1.67 1.67	\$ -			
S1-I23 Haul Assemt S1-I24 S1-I24	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we Foundation Haul	each each or Total structue eight increases of each each each each each each each eac	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.18 \$ - \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67 \$ 1.67			
S1-I23 Haul Assemt S1-I24 S1-I24	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we Foundation Haul	each each or Total structure each each each each each each each each	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ -			
S1-I23 Haul Assemt S1-I24 S1-I24 Haul	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we Foundation Haul	each each or Total structure eight increases or each each each each each each each each	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 1.67	\$ -			
S1-I23 Haul Assemt S1-I24 S1-I24 Haul	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we Foundation Haul	each each each or Total structure eight increases or each each each each each each each each	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ -			
S1-I23 Haul Assemt S1-I24 S1-I24 Haul	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we Foundation Haul	each each each each each each each eac	1	17 20 1	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 1.67 1.67	\$ -			
S1-I23 Haul Assemt S1-I24 S1-I24 Haul	A Assembly and Installation of Foundation The state of t	Type E1-1, per kg, to be used for we Foundation Haul Grillage Installation ion Type A1-2, per kg, to be used for Type A1-2, per kg, to be used for we Foundation Haul	each each each or Total structure eight increases or each each each each each each each each	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ 0.49 \$ 1.18 \$ - \$ - \$ - \$ - \$ - \$ 1.67 \$ 1.67	\$ 1 \$ 1 \$ 1 \$ 2 \$ 3 \$ 3 \$ 3 \$ 4 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	- 1 - 1 1.67 1.67 1.67 1.67 1.67 1.18 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$ -			



NALCOR 350 kV HVdc Line Co	onstruction Front 2 (Long Range Mountain					Crew Cost						Total Unit Cost	
Description		Ur	nits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S1-I25 Assembly and Installation o S1-I25 Assembly and Installation of F	of Foundation Type A2-2, per kg, to be used for Foundation Type A2-2, per kg, to be used for weig	Total structu	re count:	1	KG			5 1.0	67 \$	1.67 \$	-	\$ 1.67	\$
Haul	Foundation Haul	each	1	17	0.00110	\$ 441.04		0.4	1 \$	0.49			
Assemble	Grillage Installation	each	1	20	0.00118	\$ 1,002.72							
		each	1			\$ -	\$ -		- T				
		each	1			\$ -	\$ - :						
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		each	1			\$ - \$ -		5 -					
		each	1			\$ -	\$ -		1				
		odon	• •			Ψ	\$ 1.67						
S1-I26 Assembly and Installation o	of Foundation Type A3-2, per kg, to be used for	Total structur	re count:	1	KG			1.0	67 \$	1.67 \$	-	\$ 1.67	\$
S1-I26 Assembly and Installation of F	Foundation Type A3-2, per kg, to be used for weig	ht increases or	decreases		_								
<u> </u>													
Haul	Foundation Haul	each	1	17	0.00110	\$ 441.04				0.49			
Assemble	Grillage Installation	each	1	20	0.00118	\$ 1,002.72							
		each each	1			\$ - \$ -		-					
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•		Cuon				\$ -	\$ -		1	_			
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		each	1 1 1			*	\$ -	-	1 \$	-			
S1-I27 Assembly and Installation of F	of Foundation Type A4-2, per kg, to be used for Foundation Type A4-2, per kg, to be used for weig	each each Total structure that increases or	re count:	1	KG	\$	\$ - \$ - \$ 1.67	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	1 \$ 67 \$	1.67		\$ 1.67	\$
S1-I27 Assembly and Installation of F	Foundation Type A4-2, per kg, to be used for weig	each each Total structur tht increases or each	re count:	17	0.00110	\$ 441.04	\$ - \$ 1.67	3	1 \$ 567 \$	1.67 \$		\$ 1.67	\$
S1-I27 Assembly and Installation of F	Foundation Type A4-2, per kg, to be used for weig	each each Total structur th increases or each each	re count:		4	\$ 441.04	\$ - \$ 1.67 \$ 0.49 \$ 1.18	6 1.6 1.6 0.6 1.6 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	1 \$ 567 \$ \$ 49 1 \$ 18 1 \$ 18	1.67 \$ 0.49 1.18		\$ 1.67	\$
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\$	S1-I31 Assembly and Installation of Foundation Haul	Type C2-2, per kg, to be used for weight of the state of	each r Total structu ght increases o each each each each each each each eac	re count: r decreases	17	KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ -	\$ - \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.18 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	3 1. 1. 3 1. 3 1. 3 1. 3 1. 3 1. 3 1. 3	1 \$ 67 \$ \$ 49 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1	1.67 \$ 0.49 1.18			1.67 \$ 1.67 \$
; <u> </u>	S1-I31 Assembly and Installation of Foundation Haul Assemble S1-I32 Assembly and Installation of Foundation S1-I32 Assembly and Installation of Foundation Haul	Type C2-2, per kg, to be used for weight of the state of	each r Total structu ght increases o each each each each each each each eac	re count: r decreases	17 20 1	KG 0.00110 0.00118 KG	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	3 1. 3 1. 3 1. 3 1. 3 1. 3 1. 3 1. 3 1.	1 \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67	- 1.67 \$ 0.49			
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	S1-I31 Assembly and Installation of Foundation Haul Assemble S1-I32 Assembly and Installation of Foundation S1-I32 Assembly and Installation of Foundation Haul	Type C2-2, per kg, to be used for weight of the state of	each r Total structu ght increases o each each each each each each each eac	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	KG 0.00110 0.00118 KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ 1	1.	1 \$ 67 \$ \$ 49 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1	- 1.67 \$ 0.49			
	S1-I31 Assembly and Installation of Foundation Haul Assemble S1-I32 Assembly and Installation of Foundation S1-I32 Assembly and Installation of Foundation Haul	Type C2-2, per kg, to be used for weight of the state of	each r Total structu ght increases o each each each each each each each eac	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1	KG 0.00110 0.00118 KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$	1.	1 \$ 67 \$ \$ 49 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1 \$ 1	- 1.67 \$ 0.49			
	S1-I31 Assembly and Installation of Foundation Haul Assemble S1-I32 Assembly and Installation of Foundation S1-I32 Assembly and Installation of Foundation Haul	Type C2-2, per kg, to be used for weight of the state of	each r Total structu ght increases o each each each each each each each eac	1	17 20 1	KG 0.00110 0.00118 KG 0.00110 0.00118	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ \$ - \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.8 \$ \$ - \$ \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.8 \$ \$ 1.67 \$ \$ 1.8 \$ \$ 1.67 \$ \$ 1.8 \$ \$ 1.	1.	1 \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ 6	- 1.67 \$ 0.49			
	S1-I31 Assembly and Installation of Foundation Haul Assemble S1-I32 Assembly and Installation of Foundation S1-I32 Assembly and Installation of Foundation Haul	Type C2-2, per kg, to be used for weight of the state of	each r Total structu ght increases o each each each each each each each eac	r decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 1 17 20	KG 0.00110 0.00118 KG 0.00110 0.001110	\$ 441.04 \$ 1,002.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.49 \$ 1.18 \$ - \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$ 1.67 \$ \$ 1.18 \$ \$	1.	1 \$ \$ 67 \$ \$ 49 1 \$ \$ 1 \$ \$ 1 \$ \$ 1 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67 \$ \$ 67	1.67 \$ 0.49 1.18 1.67 1.67 1.67 1.67 1.67 1.67			



1	NALCOR 350 kV HVdc Line Constru	uction Front 2 (Long Range Mountai	<mark>in</mark> s)				Crew Cost						Total Unit Cos	st
t		· · ·		Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
5	S1-I33 Assembly and Installation of Fou	ndation Type D2-2, per kg, to be used fo	r Total struct	ture count:	1	KG			\$ 1.	67	\$ 1.67 \$	-	\$ 1	.67 \$
5	S1-I33 Assembly and Installation of Found	ation Type D2-2, per kg, to be used for wei	ght increases	or decreases					·					
Ī	Haul	Foundation Haul	each	1	17	0.00110	\$ 441.04	\$ 0.49	\$ 0.	49 1	\$ 0.49			
	Assemble	Grillage Installation	each	1		0.00118								
			each	1			\$ -	\$ -	\$ -					
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			each	1			\$ -	\$ -	\$ -					
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			each	1			\$ -	\$ -	\$ -	1	\$ -			
			each	1			\$ -	\$ -	\$ -		\$ -			
								\$ 1.67	\$ 1.	67	\$ 1.67			
										4				
5	S1-I34 Assembly and Installation of Four	ndation Type E1-2, per kg, to be used fo	r Total struct	ture count:	1	KG			\$ 1.	67	\$ 1.67 \$	-	\$ 1	.67 \$
5	S1-I34 Assembly and Installation of Found	ation Type E1-2, per kg, to be used for wei	ght increases	or decreases										
1.	Hand		2	1	47	0.00440	44404	0.10	•	40 41	ф 0.40 T			
_	Haul	Foundation Haul	each	1	17	0.00110					\$ 0.49			
1	Assemble	Grillage Installation	each	1	20	0.00118	\$ 1,002.72							
_			each				\$ -		<u>\$</u> -					
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			each	1			\$ -		\$ -					
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			each	1			T		\$ -	1				
5	S1-I35 Assembly and Erection of Tower	Type A1, per kg, to be used for weight	each each Total struct	ture count:	1	KG	T	\$ - \$ 1.67	\$ -	67	\$ -		\$ 5	.04 \$
	S1-I35 Assembly and Erection of Tower S1-I35 Assembly and Erection of Tower Ty	Type A1, per kg, to be used for weight //pe A1, per kg, to be used for weight increa	each each Total struct	ture count:		KG	T	\$ - \$ 1.67	\$ - \$ 1.	67	\$ - \$ 1.67		\$ 5	.04 \$
5	S1-I35 Assembly and Erection of Tower Ty	Type A1, per kg, to be used for weight /pe A1, per kg, to be used for weight increa	each each Total struct	ture count:	1		\$	\$ 1.67	\$ - \$ 1.	1 67 04	\$ - \$ 1.67 \$ 5.04 \$	-	\$ 5	.04 \$
E	S1-I35 Assembly and Erection of Tower Ty Haul	Type A1, per kg, to be used for weight //pe A1, per kg, to be used for weight increa	each each Total struct ases or decrease each	ture count:	1	0.00116	\$ 441.04	\$ 1.67 \$ 0.51	\$ - \$ 1. \$ 5.	1 67 04	\$ - \$ 1.67 \$ 5.04 \$	-	\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each	ture count:	1 1 20	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 1.67 \$ 0.51 \$ 3.79	\$ \$ 1. \$ 5. \$ 3.	1 1 67 04 51 1 79 1	\$ - \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79	-	\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul	/pe A1, per kg, to be used for weight increa	Total struct ases or decrease each each each each	ture count:	1 20 40	0.00116	\$ 441.04	\$ 1.67 \$ 0.51 \$ 3.79 \$ 0.74	\$ - 1.	51 1 79 1 74 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74		\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decrease each each each each each	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 1.67 \$ 0.51 \$ 3.79 \$ 0.74 \$ -	\$ \$ 1. \$ 5. \$ 0. \$ 3. \$ 0. \$	51 1 79 1 74 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ -		\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decrease each each each each each each	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 0.51 \$ 0.74 \$ -	\$ - 1.	51 1 79 1 74 1	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ -		\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 0.51 \$ 0.74 \$ - \$ - \$ -	\$	04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - 5 \$ - 5		\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 0.51 \$ 0.74 \$ - \$ - \$ - \$ -	\$	04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$		\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 1.67 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ -	\$ - 1.	51 1 79 1 74 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ \$ 0.74 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$		\$ 5	.04 \$
F F	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 1.67 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ -	\$ - 5.	51 1 79 1 74 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 0.74 \$ - 5 0.74 \$ - 5 0.74 \$ - 5 0.74 \$ 0.7		\$ 5	.04 \$
E E	S1-I35 Assembly and Erection of Tower Ty Haul Assemble	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 1.67 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ -	\$ - 5.	51 1 79 1 74 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ \$ 0.74 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$		\$ 5	.04 \$
H	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect	/pe A1, per kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count: ses	1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04	\$ - 5.	51 1 79 1 74 1 1 1 1 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ 5.04			
	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower	/pe A1, per kg, to be used for weight increa	each each ses or decrease each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04	\$ - 5.	51 1 79 1 74 1 1 1 1 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 0.74 \$ - 5 0.74 \$ - 5 0.74 \$ - 5 0.74 \$ 0.7			.04 \$
	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect	/pe A1, per kg, to be used for weight increa	each each ses or decrease each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72	\$ 0.51 \$ 0.74 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04	\$ - 5.	51 1 79 1 74 1 1 1 1 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ 5.04			
######################################	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight //pe A2, per kg, to be used for weight increase.	each each ses or decrease each each each each each each each eac	ture count:	1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74	\$ - 5.	51 1 79 1 74 1 1 1 1 1 1 1 04	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ 0.74 \$ - 5.30 \$			
######################################	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight //pe A2, per kg, to be used for weight increa	each each each each each each each each	ture count:	1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04	\$ - 5.	1 67	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - 5 5.04 \$ 5 5.04 \$ 5 5.04			
\$ E E E E E E E E E E E E E E E E E E E	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight increa	each each each each each each each each	ture count:	1 20 40 1 1	KG 0.00174 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ 0.51 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.77 \$ 0.77 \$ 0.77 \$ 0.77	\$ - 5.	04	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - 5 6.74 \$ 6.74 \$ 6.74 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.75 \$ 6.77 \$ 6.7			
\$ \$ \$ \$ \$ \$ \$ \$	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul Assemble	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight //pe A2, per kg, to be used for weight increa	each each each each each each each each	ture count:	1 20 40 1 1 20 40	0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ 0.51 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - 5.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04 \$ 5.30 \$ \$ 0.77 \$ 3.79 \$ 0.74			
\$ E E E E E E E E E E E E E E E E E E E	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul Assemble	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 20 40 1 1 20 40	KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72 \$ 1,482.09	\$ 0.51 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - 5. \$ 0. \$ 3. \$ 0. \$ - 5. \$ - 5. \$ 5. \$ 5. \$ 5.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ \$ - \$ - \$ 5.04 \$ 5.30 \$			
\$ E E E E E E E E E E E E E E E E E E E	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul Assemble	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 20 40 1 1 20 40	KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 0.77 \$ 0.77 \$ 0.74 \$ 0.77	\$ - 5. \$ 0. \$ 3. \$ 0. \$ - 5. \$ - 5. \$ 5. \$ 5.	04	\$ - 1.67 \$ 1.67 \$ 5.04 \$ \$ 0.51 \$ \$ 0.74 \$ - \$ - \$ - \$ - \$ 5 -			
\$ \$ \$ \$ \$ \$ \$ \$	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul Assemble	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 20 40 1 1 20 40	KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.77 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - 5. \$ 0. \$ 3. \$ 0. \$ - 5. \$ - 5. \$ 5. \$ 5.	04 51 1 79 1 74 1 1 1 1 1 04 30 77 1 79 1 79 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ \$ 0.74 \$ - \$ - \$ - \$ 5 -			
\$ \$ \$ \$ \$ \$ \$ \$	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul Assemble	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 20 40 1 1 20 40	KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.77 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - 5. \$ 0. \$ 3. \$ 0. \$ - 5. \$ - 5. \$ 5. \$ 5.	04 51 1 79 1 74 1 1 1 1 1 1 1 77 1 77 1 77 1 77 1	\$ - 1.67 \$ 5.04 \$ \$ 0.51 \$ \$ 0.74 \$ - \$ - \$ - \$ 5 - \$ 6 - \$ 6 - \$ 7 - \$ 8 -			
\$ \$ \$ \$ \$ \$ \$ \$ \$	S1-I35 Assembly and Erection of Tower Ty Haul Assemble Erect S1-I36 Assembly and Erection of Tower S1-I36 Assembly and Erection of Tower Ty Haul Assemble	Hauling Grillage installation Y- Tower Erection Type A2, per kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 20 40 1 1 20 40	KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.77 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - 5.	30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 1.67 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ \$ - \$ \$ 5.04 \$ 0.77 \$ 3.79 \$ 0.77 \$ 3.79 \$ 0.74 \$ - \$			



NALCOR	R 350 kV HVdc Line Construction	on Front 2 (Long Range Mounta	<mark>ıın</mark> s)				Crew Cost						Total Unit Co	ost
				Units		Hours per							Manhours ar	
Description	on			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	s Total Materials
	sembly and Erection of Tower Type sembly and Erection of Tower Type A				1	KG			\$ 5.	30	\$ 5.30	-	\$	5.30 \$
	, , , , , , , , , , , , , , , , , , , ,	3												
Haul		Hauling	each		1 1	0.00174			\$ 0.	77 1				
Assemble		Grillage Installation	each			0.00378	\$ 1,002.72	\$ 3.79		79 1				
Erect		Y- Tower Erection	each		1 40	0.0005	\$ 1,482.09							
			each		1		\$ -	\$ -	\$ -					
			each each		1		<u>-</u>		\$ \$					
			each		1		\$ - \$ -	·	\$ -		\$ - \$ -			
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			each				\$ -		\$ -					
					I	<u> </u>	,	\$ 5.30			\$ 5.30			
S1-I38 Ass	sembly and Erection of Tower Type	A4, per kg, to be used for weight	Total struct		1	KG			\$ 5.	04	\$ 5.04	-	\$	5.04 \$
S1-I38 Ass	sembly and Erection of Tower Type A	4, per kg, to be used for weight incre	ases or decrea	ses										
Haul		r	each	1 .	1 1	0.00116	\$ 441.04	\$ 0.51	\$ 0.	51 1	\$ 0.51			
Assemble		Hauling Grillage Installation	each		1 20		\$ 1,002.72			79 1	\$ 3.79			
Erect		Y- Tower Erection	each				\$ 1,482.09			74 1				
			each			0.0000	\$ -/		\$ -					
			each		1		\$ -	\$ -	\$					
			each		1		\$ -	\$ -	\$ -					
			each		1		\$ -	\$ -	\$ -	1	\$ -			
			_											
			each		1		\$ -		\$ -					
			_		1 1		\$ - \$ -	\$ -	\$ -	1	\$ -			
			each		1		T		\$ -	1				
S1-I39 Ass	sembly and Erection of Tower Type	e B1, per ka, to be used for weight	each each		1		T	\$ - \$ 5.04	\$ 5.	04	\$ - \$ 5.04		\$	5.04 \$
	sembly and Erection of Tower Type sembly and Erection of Tower Type B		each each Total struct	ture count:	1		T	\$ - \$ 5.04	\$ 5.	04	\$ -	-	\$	5.04 \$
S1-I39 Ass			each each Total struct	ture count:	1	KG	\$	\$ 5.04	\$ 5.	04	\$ - \$ 5.04 \$ 5.04	-	\$	5.04 \$
S1-I39 Ass	sembly and Erection of Tower Type B		each each Total struct asses or decrease	ture count:	1 1 1	KG 0.00116	\$ 441.04	\$ 5.04 \$ 0.51	\$ -5. \$ 5.	04 04 51 1	\$ - \$ 5.04 \$ 0.51	.	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	each each Total struct ases or decrease each each	ture count:	1 1 1 1 1 1 20	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79	\$ 5. \$ 5. \$ 0. \$ 3.	04 04 51 1 79 1	\$ - \$ 5.04 \$ 5.04 \$ 0.51 \$ 3.79	-	\$	5.04 \$
S1-I39 Ass	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre	each each Total struct ases or decrease each each each	ture count:	1 1 1 1 1 1 20 1 40	KG 0.00116	\$ 441.04	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0.	04 51 1 79 1 74 1	\$ - 5.04 \$ 5.04 \$ \$ 5.04 \$ \$ 0.51 \$ 3.79 \$ 0.74	-	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	Total struct ases or decrease each each each each each	ture count:	1 1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ -	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0.	04 51 1 1 79 1 74 1 1	\$ - 5.04 \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	-	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	each each Total struct ases or decrease each each each	ture count:	1 1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0.	04 04 51 1 79 1 74 1	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.05 \$	-	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	each each Total struct ases or decrea: each each each each each each	ture count:	1 1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 0.74 \$ - \$ -	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0. \$ 3.	04 04 51 1 79 1 74 1 1 1	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.05 \$	-	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	each each Total struct ases or decrea: each each each each each each each	ture count:	1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ -	\$ 5.	04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 5.04 \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$	-	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	each each Total struct ases or decrea: each each each each each each each each	ture count:	1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ -	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0. \$ 5.	04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 5.04 \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5	-	\$	5.04 \$
S1-I39 Ass Haul Assemble	sembly and Erection of Tower Type B	1, per kg, to be used for weight incre Hauling Grillage Installation	each each Total struct ases or decrea: each each each each each each each eac	ture count:	1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ -	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0. \$ 5.	04 51 1 79 1 74 1 1 1 1 1	\$ 5.04 \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$ 5.04 \$ \$	-	\$	5.04 \$
S1-I39 Ass Haul Assemble Erect	sembly and Erection of Tower Type B	11, per kg, to be used for weight incre Hauling Grillage Installation Y- Tower Erection	each each Total struct ases or decreat each each each each each each each eac	ture count: ses	1 1 1 1 1 20 1 40	KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 5.04	\$ 5. \$ 5. \$ 5. \$ 5. \$ 5.	04 51 1 79 1 74 1 1 1 1 1 1 1 04	\$ 5.04 \$ 5.04 \$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass	sembly and Erection of Tower Type B	11, per kg, to be used for weight incre Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight	each each Total struct ases or decrease each each each each each each each ea	ture count:	1 1 1 1 1 20 1 40	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 5.04	\$ 5. \$ 5. \$ 5. \$ 5. \$ 5.	04 51 1 79 1 74 1 1 1 1 1 1 1 04	\$ 5.04 \$ 5.04 \$ \$ \$ 5.04 \$ \$ 5			5.04 \$ 5.30 \$
S1-I39 Ass Haul Assemble Erect S1-I40 Ass	sembly and Erection of Tower Type B	11, per kg, to be used for weight incre Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight	each each Total struct ases or decrease each each each each each each each ea	ture count:	1 1 1 1 1 20 1 40	KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72	\$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 5.04	\$ 5. \$ 5. \$ 5. \$ 5. \$ 5.	04 51 1 79 1 74 1 1 1 1 1 1 1 04	\$ 5.04 \$ 5.04 \$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass	sembly and Erection of Tower Type B	Hauling Grillage Installation Y- Tower Erection PB 2, per kg, to be used for weight 2, per kg, to be used for weight incre	each each Total struct ases or decrea: each each each each each each each eac	ture count:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74	\$ 5. \$ 0. \$ 0. \$ 3. \$ 0. \$ 3. \$ 5. \$ 5. \$ 5.	04 04 51 1 79 1 74 1 1 1 1 1 1 04	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 5.04			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	11, per kg, to be used for weight incre Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight	each each Total struct ases or decrease each each each each each each each ea	ture count:	1 1 1 1 1 20 1 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.77	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5.	04 04 51	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 5.04 \$ 5.30			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	Hauling Gillage Installation Y- Tower Erection BB2, per kg, to be used for weight 2, per kg, to be used for weight incre	each each each each each each each each	ture count:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.00005 KG	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ 0.51 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.74 \$ 0.77 \$ 0.77 \$ 0.77 \$ 0.77	\$ 5. \$ 5. \$ 0. \$ 3. \$ 3. \$ 3. \$ 3. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5.	04 04 51	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.05 \$ 0.74 \$ -			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass Haul Assemble	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight 2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count:	1 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005 KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ 0.51 \$ 0.77 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 5. \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5.	04 04 51	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.05 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 5.30 \$ 5.30 \$ 5.30			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass Haul Assemble	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight 2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005 KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 0.77 \$ 5.04	\$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 6. \$ 7. \$ 7. \$ 7. \$ 7. \$ 7. \$ 7. \$ 7. \$ 7	04 51 1 79 1 74 1 1 1 1 1 1 1 77 1 77 1 79 1 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ - 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.00			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass Haul Assemble	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight 2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005 KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 0.77 \$ 5.04	\$ 5. \$ 5. \$ 5. \$ 0. \$ 3. \$ 0. \$ 3. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 7.	04 51 1 79 1 74 1 1 1 1 1 04 30 77 1 79 1 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.05 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 5.04 \$ 5.30 \$ 5.30 \$ 5.30			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass Haul Assemble	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight 2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: ses	1 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005 KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 5. \$ 0. \$ 0. \$ 3. \$ 0. \$ 3. \$ 0. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 6. \$ 7.	04 51 1 79 1 74 1 1 1 1 1 04 30 77 1 79 1 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.051 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 5.30 \$ 5.30 \$ 5.30			
S1-I39 Ass Haul Assemble Erect S1-I40 Ass S1-I40 Ass Haul Assemble	sembly and Erection of Tower Type B sembly and Erection of Tower Type sembly and Erection of Tower Type B	Hauling Grillage Installation Y- Tower Erection B B2, per kg, to be used for weight 2, per kg, to be used for weight incre Hauling Grillage Installation	each each each each each each each each	ture count: ses ture count: ses	1 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0005 KG 0.00174 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 0.51 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ 5.04 \$ 0.77 \$ 5.04	\$ 5. \$ 0. \$ 0. \$ 3. \$ 0. \$ 3. \$ 0. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 5. \$ 6. \$ 7.	04 51 1 79 1 74 1 1 1 1 1 1 1 77 1 77 1 77 1 79 1 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 5.04 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 5.04 \$ 5.30 \$ 5.30 \$ 5.30			



	R 350 kV HVdc Line Construction F	Front 2 (Long Range Mountai					Crew Cost						Total Unit	
Description	n			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours Mater	
Bescription	''			Total	Crew No.	unit	riourly reace	Offit Cost	Gubtotai	OTILO	Offit Cost	Widterials	Water	Total Materials
S1-I41 Ass S1-I41 Ass	sembly and Erection of Tower Type C1, sembly and Erection of Tower Type C1, pe	, per kg, to be used for weight er kg, to be used for weight increa	Total struct ases or decreas		1	KG		\$	5	.36 \$	5.36 \$	-	\$	5.36 \$
Haul		Hauling	each	1	1 1	0.00116	\$ 441.04	\$ 0.51 \$	0	.51 1 \$	0.51			
Assemble		Grillage Installation	each	1		0.00378			3	79 1 \$	3.79			
Erect		Tower Topping	each			0.0006	\$ 1,656.68			.06 1 \$				
2.551		топол горрану	each	1		0.0000	\$ -	\$ - \$						
			each	1	1		\$ -	\$ - \$		1 \$				
			each	1	1		\$ -	\$ - \$		1 \$				
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			•		•			\$ 5.36 \$	5	.36 \$	5.36			
S1-I42 Ass	sembly and Erection of Tower Type C2,	, per kg, to be used for weight	Total struct		1	KG		\$	5	.36 \$	5.36 \$	-	\$	5.36 \$
S1-I42 Ass	sembly and Erection of Tower Type C2, pe	er kg, to be used for weight increa	ses or decreas	ses		_								
				1										
Haul		Hauling	each	1		0.00116	\$ 441.04			51 1 \$	0.51			
Assemble		Grillage Installation	each	1		0.00378	\$ 1,002.72	\$ 3.79 \$		79 1 \$	3.79			
Erect		Tower Topping	each	1	6	0.0006				.06 1 \$				
			each	1			\$ -							
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1				1			\$ -	\$ - \$		1 \$	=			
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			each	1			\$ -	\$ - \$		1 \$	=			
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	sembly and Erection of Tower Type D1, sembly and Erection of Tower Type D1, po		each each	ture count:			*	\$ - \$	5	1 \$ 1 \$	5.36	-	\$	5.36 \$
			each each	ture count:			\$ 441.04	\$ - \$ \$ 5.36 \$ \$ \$ 0.51 \$	5 5	1 \$ 36 \$ \$ 51 1 \$	5.36 5.36 \$	-	\$	5.36 \$
S1-I43 Ass	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct	ture count:		KG	\$	\$ - \$ \$ 5.36 \$ \$ \$ \$ 0.51 \$ \$ 3.79 \$	5 5 0 3	1 \$ 36 \$ \$ 51 1 \$ 79 1 \$ \$	5.36 \$ 0.51 3.79		\$	5.36 \$
S1-I43 Ass	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decrease each	ture count:	1	KG 0.00116	\$ 441.04	\$ - \$ \$ 5.36 \$ \$ \$ \$ 0.51 \$ \$ 3.79 \$	5 5 0 3	1 \$ 36 \$ 36 \$ 51 1 \$ 579 1 \$ 506 1 \$ 5	5.36 \$ 0.51 3.79 1.06	_	\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each	ture count:	1 1 20	KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72	\$ - \$ \$ 5.36 \$ \$ \$ \$ 0.51 \$ \$ 3.79 \$ \$ 1.06 \$ \$ - \$	5 5 0 3 1	1 \$ 36 \$ 36 \$ \$ 51 1 \$ \$ 79 1 \$ \$ 06 1 \$ \$	5.36 \$ 0.51 3.79 1.06	_	\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each	ture count:	1 20 6	KG 0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72	\$ - \$ \$ 5.36 \$ \$ 5.36 \$ \$ 1.06 \$ \$ - \$ \$ - \$	5 5 0 3 1	1 \$ 36 \$ 36 \$ \$ 51 1 \$ \$ 79 1 \$ \$ 06 1 \$ \$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.36 \$ 0.51 3.79 1.06 -	_	\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each	ture count:	1 1 20 6	KG 0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ 5.36 \$ \$ 1.06 \$ \$ - \$ \$ - \$ \$ - \$	0 3 1	1 \$ 36 \$ 36 \$ 36 \$ \$ 36 \$ 36 \$	5.36 5.36 \$ 0.51 3.79 1.06		\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count: ses	1 20 6	0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.	5 5 0 3 1	1 \$ 36 \$ 36 \$ 36 \$ \$ 36 \$ 36 \$	5.36 \$ 0.51 3.79 1.06	_	\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count: ses	1 20 6	0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.	0 3 1	1 \$ 36 \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36	5.36 \$ 5.36 \$ 0.51 3.79 1.06	_	\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count: ses	1 20 6	0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36	0 3 1	1 \$ 36 \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36	5.36 \$ 5.36 \$ 0.51 3.79 1.06	_	\$	5.36 \$
S1-I43 Ass Haul Assemble	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each Total struct ases or decreas each each each each each each each eac	ture count: ses	1 20 6	0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.	0 3 1	1 \$ 36 \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36	5.36 \$ 5.36 \$ 0.51 3.79 1.06	_	\$	5.36 \$
S1-I43 Assi Haul Assemble Erect	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each ses or decrease each each each each each each each eac	ture count: ses	1 20 6	KG 0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0 3 1	1 \$ 36 \$ \$ \$ \$ \$ \$ \$ \$ \$	5.36 \$ 0.51 3.79 1.06			
S1-I44 Ass	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each ses or decrease each each each each each each each eac	ture count:	1 20 6	0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36	0 3 1	1 \$ 36 \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36	5.36 \$ 0.51 3.79 1.06		\$	5.36 \$ 5.36 \$
S1-I44 Ass	sembly and Erection of Tower Type D1, po	er kg, to be used for weight increa	each each ses or decrease each each each each each each each eac	ture count:	1 20 6	KG 0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0 3 1	1 \$ 36 \$ \$ \$ \$ \$ \$ \$ \$ \$	5.36 \$ 0.51 3.79 1.06			
S1-I44 Ass	sembly and Erection of Tower Type D1, po	Hauling Gillage Installation Tower Topping , per kg, to be used for weight er kg, to be used for weight increa	each each each each each each each each	ture count:	1 1 20 6	KG 0.00116 0.00378 0.00006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 5 0 3 1	1 \$ 36 \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$	5.36 \$ 0.51 3.79 1.06 5.36 5.36			
S1-I43 Assi Haul Assemble Erect S1-I44 Ass S1-I44 Assi	sembly and Erection of Tower Type D1, post- sembly and Erection of Tower Type D2, sembly and Erection of Tower Type D2, post- sembly and Erection of Tower Type D2, post-	Hauling Gillage Installation Tower Topping , per kg, to be used for weight er kg, to be used for weight increa	each each each each each each each each	ture count:	1 1 20 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00116 0.00378 0.0006 KG	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 5 0 3 1 1	1 \$ 36 \$ 36 \$ 36 \$ \$ 36	- - - 5.36 \$ 5.36 \$ 0.51 3.79 1.06 - - - - - - - 5.36 \$			
S1-I43 Ass Haul Assemble Erect S1-I44 Ass S1-I44 Ass Haul Assemble	sembly and Erection of Tower Type D1, post- sembly and Erection of Tower Type D2, sembly and Erection of Tower Type D2, post- sembly and Erection of Tower Type D2, post-	Hauling Grillage Installation Tower Topping , per kg, to be used for weight er kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 1 20 6 1 1 1 1 1 20 1 1 20 1 1 20 1 1 1 20 1 1 1 1	KG 0.00116 0.00378 0.0006 KG 0.00116 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,002.72	\$ - \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ 5.36 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 5 0 3 1 1 5 5	1 \$ 36 \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 36 \$ \$ 379 \$ 1 \$ \$ 37	- - - 5.36 \$ 5.36 \$ 0.51 3.79 1.06 - - - - - - - 5.36 \$ 5.36 \$ 5.36			
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S1-I43 Ass Haul Assemble Erect S1-I44 Ass S1-I44 Ass Haul Assemble	sembly and Erection of Tower Type D1, post- sembly and Erection of Tower Type D2, sembly and Erection of Tower Type D2, post- sembly and Erection of Tower Type D2, post-	Hauling Grillage Installation Tower Topping , per kg, to be used for weight er kg, to be used for weight increa	each each each each each each each each	ture count: ses	1 20 6 1 1 1 20 6	KG 0.00116 0.00378 0.0006 KG 0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ 5.36 \$ \$ \$ 5.36 \$ \$ 5.	5 5 0 3 1 1 5 5 5 5	1 \$ 36 \$ \$ \$ \$ \$ \$ \$ \$ \$	5.36 \$ 0.51 3.79 1.06			
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	NALCOR 350 kV HVdc Line Construction	on Front 2 (Long Range Mountai					Crew Cost					Total Unit Co	ost
ayment			·	Jnits		Hours per						Manhours ar	
tem	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials Materials	s Total Materials
V::I45	S1-I45 Assembly and Erection of Tower Type	E1 per ka to be used for weight	Total struct	ure count:	1	KG			\$ 5.3	36 \$	5.36	- \$	5.36 \$ -
V143	S1-I45 Assembly and Erection of Tower Type E	1, per kg, to be used for weight increa	ses or decreas	ses	•	110			Ψ	Ψ	3.30	- Ψ	3.30 ¥
					_	_							
	Haul	Hauling	each	1		0.00116		\$ 0.51			0.51		
	Assemble	Grillage Installation	each		20	0.00378	\$ 1,002.72	\$ 3.79			3.79		
	Erect	Tower Topping	each	1	6	0.0006	\$ 1,656.68	\$ 1.06			1.06		
			each	1			\$ -	\$ -	\$ -	1 \$			
			each	1			\$ -	\$ -	\$ -		-		
			each	1			Φ	<u>\$</u>	\$ -		-		
			each each				\$ -	<u>\$</u> -	\$ - \$ -		-		
							\$ -	<u>\$</u> -			-		
			each				a -	\$ -			5.36		
								\$ 5.36	δ 0	30	5.30		
V::I46	S1-I46 Survey Cost		Total struct	uro count:	1	LS			\$ 5.3	36 \$	5.36	1,338,817.71 \$ 1,338,82	3.07 \$ 1,338,817.
	S1-I46 Survey Cost S1-I46 Survey Cost		Total Struct	ure count.		Lo			φ 3	30	5.50	1,330,617.71 \$ 1,330,62	3.07 \$ 1,336,617.
	31-140 Survey Cost												
		Hauling	each	1	1	0.00116	\$ 441.04	\$ 0.51	\$ 0.5	51 1 \$	0.51		
		Hauling Grillage Installation	each each	1		0.00116 0.00378			\$ 0.5 \$ 3.7	51 1 \$ 79 1 \$	0.51 3.79		
		Hauling Grillage Installation Tower Topping		1 1	1 20 6	0.00116 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68	\$ 3.79	\$ 3.7	79 1 \$	3.79		
		Grillage Installation	each each	1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68	\$ 3.79	\$ 3.7	79 1 \$ 06 1 \$	3.79 1.06		
		Grillage Installation	each	1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ -	\$ 3.79 \$ 1.06	\$ 3.7 \$ 1.0	79 1 \$ 06 1 \$ 1 \$	3.79 1.06		
		Grillage Installation	each each each	1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ -	\$ 3.79 \$ 1.06 \$ -	\$ 3.1 \$ 1.0 \$ -	79 1 \$ 06 1 \$ 1 \$ 1 \$	3.79 1.06		
		Grillage Installation	each each each each	1 1 1 1 1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ -	\$ 3.79 \$ 1.06 \$ -	\$ 3.1 \$ 1.0 \$ -	79	3.79 1.06 - -		
		Grillage Installation	each each each each each	1 1 1 1 1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ -	\$ 3.1 \$ 1.0 \$ - \$ -	79	3.79 1.06 - - - -		
		Grillage Installation	each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ -	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ -	79	3.79 1.06 - - - - - - -		
		Grillage Installation	each each each each each each each	1 1 1 1 1 1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ -	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ - \$ -	79	3.79 1.06 - - - - - - -		
		Grillage Installation	each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ - \$ -	79	3.79 1.06 - - - - -		
B-E(Rider)) RiderPole	Grillage Installation	each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 6	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ - \$ 5.3	79	3.79 1.06 - - - - - - - - - 5.36	236.90 \$ 10,10	3.64 \$ 4,738.
B-E(Rider)) RiderPole	Grillage Installation	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ - \$ 5.5	79	3.79 1.06 - - - - - - - - - 5.36	236.90 \$ 10,10	3.64 \$ 4,738.
B-E(Rider)) RiderPole	Grillage Installation	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 6	0.00378	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ - \$ 5.3	79	3.79 1.06 - - - - - - - - - 5.36	236.90 \$ 10,10	3.64 \$ 4,738.
) RiderPole	Grillage Installation	each each each each each each each each	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 6	0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.36	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ 5.3 \$ 197,334.3	79	3.79 1.06 - - - - - - 5.36 9,866.74	\$ 236.90 \$ 10,10	3.64 \$ 4,738.
		Grillage Installation Tower Topping	each each each each each each each each		20 6	0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.36	\$ 3.3 \$ 1.0 \$ - \$ - \$ - \$ - \$ 5.3 \$ 197,334.1	79	3.79 1.06 - - - - - - 5.36 9,866.74	\$ 236.90 \$ 10,10	3.64 \$ 4,738.
•	Haul	Grillage Installation Tower Topping Wire Hauling	each each each each each each each each	20	20 6	0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.36	\$ 3.1 \$ 1.0 \$ - \$ - \$ - \$ - \$ 5.3 \$ 197,334.1	79	3.79 1.06 - - - - - - 5.36 9,866.74 9,866.74	\$ 236.90 \$ 10,10	3.64 \$ 4,738.
	Haul Install	Grillage Installation Tower Topping Wire Hauling Rüder Pole Crew	each each each each each each each each	20	20 6 8 20 20 20 16 16	0.00378 0.0006	\$ 1,002.72 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,023.95	\$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.36 \$ 1,216.52 \$ 3,716.85	\$ 3.0 \$ 1.0 \$ - \$ - \$ - \$ - \$ 5.3 \$ 197,334.1 \$ 24,330.4 \$ 74,336.9 \$ 74,336.9	79	3.79 1.06 5.36 9,866.74 1,216.52 3,716.85 3,716.85	\$ 236.90 \$ 10,10	3.64 \$ 4,738.

Construction Total



Man Hours Total: \$ 122,985,706.41 Mat. Total: \$ 104,972,464.19



		Ī	1		Γ	2			2				•	1	5	
			1 Haul		Site Pre	2 epar	ration	Block	3 ing C	rew	Latti	ce A	ssembly	Lattic		ection
			No.	Rate	No.		Rate	No.	Ľ	Rate	No.		Rate	No.		Rate
Designation Supervisor	\$	Rate 142.83		\$		\$			\$			\$			\$	
Foreman	\$	120.15		\$ -	0.50	\$			\$	-	1.00	\$	120.15	1.00	\$	120.15
Surveyor	\$	111.85		\$ -	0.50	\$			\$	-		\$	-		\$	-
Lineman	\$	111.85		\$ -		\$			\$	-	1.00	\$	111.85	2.00	\$	223.70
Apprentice - 4th Year Apprentice - 3rd Year	\$ \$	103.90 95.95		\$ -		\$		1.00	\$	- 95.95	2.00	\$ \$	207.79 191.89	1.00 2.00	\$ \$	103.90 191.89
Apprentice - 2nd Year	\$	87.99	1.00	\$ 87.99		\$		1.00	\$	-	2.00	\$	-	2.00	\$	-
Apprentice - 1st Year	\$	80.04		\$ -		\$	-		\$	-		\$	-		\$	-
Equipment Operator	\$	96.49	4.00	\$ 407.40	2.00	\$		1.00	\$	96.49	1.00	\$	96.49	1.00	\$	96.49
Truck Driver / Picker Op. Labourer	\$	107.16 87.44	1.00	\$ 107.16		\$			\$	-	1.00	\$ \$	107.16	2.00	\$ \$	214.32
3rd Party Density Tester	\$	243.80		\$ -		\$			\$	-		\$	-		\$	-
Carpenter	\$	100.05		\$ -		\$			\$	-		\$	-		\$	-
Telecom Foreman Telecom Cable Splicer	\$	87.44 87.44		\$ -		\$			\$	-		\$ \$	-		\$ \$	-
Included Super or Operator	\$	-		\$ -		\$			\$	-		\$	-		\$	
none	\$	-		\$ -		\$			\$	-		\$	-		\$	-
						1			1			T				
TOTAL LABOUR			2.00	195.16	3.00		308.98	2.00		192.44	8.00		835.34	9.00		950.45
Pickup	\$	24.36		\$ 	0.50	\$	12.18		\$	_		\$	_		\$	_
Crew Cab Truck	\$	29.20	1.00	\$ 29.20	1.00	\$	29.20		\$	-	2.00	\$	58.40	2.00	\$	58.40
Conductor Splicing Truck	\$	46.02		\$ -		\$			\$	-		\$	-		\$	-
OPGW Splicing Truck Picker - 17 Ton	\$	93.60 136.27		\$ -		\$			\$	-	1.00	\$	136.27		\$ \$	-
Picker - 38 Ton	\$	180.25		\$ -		\$			\$	-	1.00	\$	-	1.00	\$	180.25
40T RT Crane	\$	195.70		\$ -		\$	-		\$			\$			\$	-
60T RT Crane	\$	247.20		\$ -		\$			\$			\$		1.00	\$	247.20
80T RT Crane Digger - TelElect 5052	\$	345.05 89.40		\$ -		\$		1.00	\$	89.40		\$	-	-	\$ \$	-
200T All-Tr. crane	\$	418.72		\$ -		\$	_	1.50	\$	-		\$		-	\$	-
Texoma	\$	162.23		\$ -		\$			\$			\$			\$	-
Quad or Side by Side 120' Gene Lift	\$ \$	24.21 87.55		\$ -		\$			\$		0.25	\$ \$	21.89		\$ \$	-
53' Tridem trailer	\$	11.85	4.00	\$ 47.38		\$			\$		0.25	\$	- 21.09	-	\$	<u>-</u>
T/A Gravel Truck	\$	68.13		\$ -		\$			\$			\$	-		\$	-
T/A Rock Truck	\$	121.67		\$ 		\$			\$	-		\$	-		\$	-
Watson 1010 Watson 1100	\$	190.55 247.20		\$ 		\$			\$	-		\$	-		\$ \$	-
Watson 2500	\$	309.00		\$		\$			\$	-		\$			\$	
Soilmec SR65	\$	437.75		\$ A		\$			\$	-		\$	-		\$	-
Tractor Trailer/Picker	\$	134.67	1.00	\$ 134.67		\$			\$	-		\$	-		\$	-
Tractor Trailer (Heavy) Self-Loader	\$	134.67 134.67		\$		\$			\$ \$	-		\$ \$			\$ \$	<u>-</u>
55' Bucket Truck	\$	81.11		\$ -		\$			\$	-		\$	-		\$	-
Pole Trailer	\$	22.04		\$ -		\$			\$	-		\$	-		\$	-
Crawler Tractors 750 JD JD 310 Back Hoe	\$ \$	165.83 68.13		\$ <u> </u>	1.00	\$			\$ \$	-		\$ \$	-		\$ \$	-
JD 554 Loader	\$	69.27	0,50	\$ 34.63		\$			\$	-	0.50	\$	34.63	1.00	\$	69.27
JD 290 Track-hoe	\$	130.60		\$ -	1.00	\$			\$	-		\$	-		\$	-
Skid-Steer Loader	\$	38.11		\$ -		\$			\$	-	-	\$	-		\$	-
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$	170.36 228.25		\$ -		\$			\$	-		\$	-		\$ \$	-
Nodwell - Digger	\$	130.60		\$ -		\$			\$	-		\$	-		\$	-
Trencher	\$	84.36		\$ -		\$			\$	-		\$	-		\$	-
10T Tele-Handler	\$	53.00		\$ 		\$			\$	-	1.00	\$	53.00		\$	-
LGP Texoma Nodwell LGP Highboy ROW Trailer	\$	162.23 32. 4 5		\$ -		\$			\$	-		\$ \$	<u>-</u>		\$ \$	-
Quad or Side by Side	\$	24.21		\$ -		\$			\$	-	1.00	\$	24.21		\$	-
Reel Trailer	\$	72.10		\$ -		\$			\$	-		\$	-		\$	-
Tensioner Puller	\$	139.05		\$ -		\$			\$ \$	-		\$ \$	<u>-</u>		\$ \$	-
Puller 1 Drum Puller	\$	139.05 77.25		\$ -		\$			\$	-		\$	-		\$	-
Single Tensioner	\$	77.25		\$ -		\$	-		\$	-		\$	-		\$	-
Single Traveller	\$	0.52		\$ -		\$			\$	-		\$	-		\$	-
JD 350 LDC Excavator	\$	160.89 22.04		\$ -		\$			\$	-		\$	-		\$	<u> </u>
Compressor Grout truck	\$	82.40		\$ -		\$			\$	-		\$	-		\$	-
Rock Drill	\$	103.00		\$ -		\$	-		\$	-		\$	-		\$	-
Press & Pump, Genset, Light plant		13.46		\$ -		\$			\$	-	1.50	\$	20.19	1.00	\$	13.46
Water pump Pilot Line Winder	\$	40.99 92.70		\$ -		\$			\$ \$	-		\$ \$	-		\$ \$	-
Wire Winder	\$	17.69		\$ <u>-</u>		\$			\$	-		\$	-		\$	-
Spacer Buggy	\$	46.35		\$ -		\$	-		\$	-		\$	-		\$	-
Travellers (ea)	\$	1.24		\$ -		\$			\$	-		\$	-		\$	-
Traffic Control Sign Hoe-Pack	\$	21.84 25.75		\$ <u>-</u>		\$			\$	<u>-</u>		\$ \$	<u>-</u>		\$ \$	-
Pile Driving Crew (per m)	\$	25.75		\$ -		\$			\$	-		\$	-		\$	-
Concrete Pumper	\$	206.00		\$ -		\$			\$	-		\$	_		\$	-
Survey Equipment	\$	56.65		\$ -	0.50				\$	-		\$	-		\$	-
Heavy Lift Helicopter - Operated Medium Lift Helicopter - Operated	\$	17,725.89		\$ <u>-</u>		\$			\$ \$	-		\$ \$			\$ \$	-
Light Duty Helicopter - Operated	\$	3,071.98 1,905.50		\$ -	_	\$			\$	-		\$	-		\$	-
TOTAL EQUIPMENT	· ·	,,,,,,,,,	6.50	245.89	4.00	Ľ	366.14	1.00	Ĺ	89.40	7.25	Ĺ	348.59	6.00	Ĺ	568.58
TOTAL CREW RATE				\$ 441.04		\$	675.12		\$	281.84		\$	1,183.92		\$	1,519.02



			6		7	1	8		9	I	10
			wer Topping	Haul Tra	vellers&Glass	Hang	Travellers	Wire	Hauling		Site Prep
Designation	B.:	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Designation Supervisor	Rate \$ 142.83		\$ -		\$ -		\$ -		\$ -		\$ -
Foreman	\$ 120.15	1.00	\$ 120.15		\$ -	1.00	\$ 120.15		\$ -	1.00	\$ 120.15
Surveyor	\$ 111.85		\$ -		\$ -		\$ -		\$ -		\$ -
Lineman	\$ 111.85	2.00	\$ 223.70	1.00	\$ 111.85	3.00	\$ 335.55		\$ -	1.00	\$ 111.85
Apprentice - 4th Year Apprentice - 3rd Year	\$ 103.90 \$ 95.95	1.00 2.00	\$ 103.90 \$ 191.89		\$ - \$ -	3.00	\$ - \$ 287.84		\$ - \$ -		\$ - \$ -
Apprentice - 2nd Year	\$ 87.99	2.00	\$ -	1.00	\$ 87.99	0.00	\$ -	1.00	\$ 87.99	2.00	\$ 175.99
Apprentice - 1st Year	\$ 80.04		\$ -		\$ -		\$ -		\$ -		\$ -
Equipment Operator	\$ 96.49	1.00	\$ 96.49	1.00	\$ 96.49	1.00	\$ 96.49	4.00	\$ -	3.00	\$ 289.48
Truck Driver / Picker Op. Labourer	\$ 107.16 \$ 87.44	2.00	\$ 214.32 \$ -	1.00	\$ 107.16 \$ -	-	\$ - \$ -	1.00	\$ 107.16 \$ -	1.00	\$ 107.16 \$ -
3rd Party Density Tester	\$ 243.80		\$ -		\$ -		\$ -		\$ -		\$ -
Carpenter	\$ 100.05		\$ -		\$ -		\$ -		\$ -		\$ -
Telecom Foreman Telecom Cable Splicer	\$ 87.44 \$ 87.44		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Included Super or Operator	\$ 67.44		\$ -		\$ -		\$ -		\$ -		\$ -
none	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
					_				I _		
TOTAL LABOUR		9.00	950.45	4.00	403.50	8.00	840.02	2.00	195.16	8.00	804.62
Pickup	\$ 24.36	1.00	\$ 24.36		\$ -		\$ -		\$ -	1.00	\$ 24.36
Crew Cab Truck	\$ 29.20	2.00	\$ 58.40	1.00	\$ 29.20	2.00	\$ 58.40	1.00	\$ 29.20	1.00	\$ 29.20
Conductor Splicing Truck	\$ 46.02		\$ -		\$ -		\$ -		\$ -		\$ -
OPGW Splicing Truck Picker - 17 Ton	\$ 93.60 \$ 136.27		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Picker - 38 Ton	\$ 136.27 \$ 180.25		\$ -		\$ -		\$ -		\$ -		\$ -
40T RT Crane	\$ 195.70	1.00	\$ 195.70		\$ -		\$ -		\$ -		\$ -
60T RT Crane	\$ 247.20		\$ -		\$ -		\$ -		\$ -		\$ -
80T RT Crane Digger - TelElect 5052	\$ 345.05 \$ 89.40	1.00	\$ 345.05 \$ -		\$ - \$ -		\$ -		\$ - \$ -	1.00	\$ - \$ 89.40
200T All-Tr. crane	\$ 89.40 \$ 418.72	-	\$ -		\$ -		\$ -		\$ -	1.00	\$ 89.40
Texoma	\$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -		\$ -		\$ -
120' Gene Lift 53' Tridem trailer	\$ 87.55 \$ 11.85	-	\$ - \$ -		\$ -		\$ -	1.00	\$ - \$ 11.85		\$ - \$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$ -	1.00	\$ -		\$ -
T/A Rock Truck	\$ 121.67		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 1010	\$ 190.55		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 1100 Watson 2500	\$ 247.20 \$ 309.00		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Soilmec SR65	\$ 437.75		\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer/Picker	\$ 134.67		\$ -	1.00	\$ 134.67		\$ -		\$ -		\$ -
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$ -		\$ -	1.00	\$ 134.67	1.00	\$ 134.67
Self-Loader 55' Bucket Truck	\$ 134.67 \$ 81.11		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Pole Trailer	\$ 22.04		\$ -		\$ -		\$ -		\$ -		\$ -
Crawler Tractors 750 JD	\$ 165.83		\$ -		\$ -		\$ -		\$ -		\$ -
JD 310 Back Hoe JD 554 Loader	\$ 68.13 \$ 69.27	1.00	\$ - \$ 69.27	1.00	\$ - \$ 69.27	1.00	\$ - \$ 69.27	0.50	\$ - \$ 34.63	1.00	\$ - \$ 69.27
JD 290 Track-hoe	\$ 130.60	1.00	\$ -	1.00	\$ -	1.00	\$ -	0.30	\$ -	1.00	\$ 130.60
Skid-Steer Loader	\$ 38.11		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwells - Picker up to 17 Ton	\$ 170.36		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwells - Picker over 17 Ton Nodwell - Digger	\$ 228.25 \$ 130.60	4	\$ -		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -
Trencher Trencher	\$ 84.36		\$ -		\$ -		\$ -		\$ -		\$ -
10T Tele-Handler	\$ 53.00		\$ -		\$ -		\$ -		\$ -		\$ -
LGP Texoma Nodwell	\$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -
LGP Highboy ROW Trailer Quad or Side by Side	\$ 32.45 \$ 24.21		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Reel Trailer	\$ 72.10		\$ -		\$ -		\$ -		\$ -		\$ -
Tensioner	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -
Puller 1 Drum Buller	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -
1 Drum Puller Single Tensioner	\$ 77.25 \$ 77.25		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Single Traveller	\$ 0.52		\$ -		\$ -		\$ -		\$ -		\$ -
JD 350 LDC Excavator	\$ 160.89		\$ -		\$ -		\$ -		\$ -		\$ -
Compressor Grout truck	\$ 22.04 \$ 82.40		\$ -		\$ -		\$ -		\$ -		\$ -
Grout truck Rock Drill	\$ 82.40 \$ 103.00		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -
Press & Pump, Genset, Light plant		1.00	\$ 13.46		\$ -		\$ -		\$ -		\$ -
Water pump	\$ 40.99		\$ -		\$ -		\$ -		\$ -		\$ -
Pilot Line Winder Wire Winder	\$ 92.70 \$ 17.69		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Spacer Buggy	\$ 17.69 \$ 46.35		\$ - \$ -		\$ - \$ -		\$ -		\$ -		\$ - \$ -
Travellers (ea)	\$ 1.24		\$ -		\$ -		\$ -		\$ -		\$ -
Traffic Control Sign	\$ 21.84		\$ -		\$ -		\$ -		\$ -		\$ -
Hoe-Pack	\$ 25.75		\$ -		\$ -		\$ -		\$ -		\$ -
Pile Driving Crew (per m) Concrete Pumper	\$ 211.07 \$ 206.00		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Survey Equipment	\$ 56.65		\$ -		\$ -		\$ -		\$ -		\$ -
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$ -		\$ -		\$ -		\$ -		\$ -
Medium Lift Helicopter - Operated			\$ - \$ -		\$ - \$ -	0.05	\$ - \$ 476.29		\$ - \$ -		\$ - \$ -
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$ 1,905.50	7.00	706.23	3.00	\$ - 233.14	0.25 3.25	\$ 476.38 604.04	3.50	\$ - 210.35	6.00	\$ - 477.51
			. 00120	3.50		. 5.20		0.00		. 5.50	
TOTAL CREW RATE			\$ 1,656.68		\$ 636.64		\$ 1,444.07		\$ 405.51		\$ 1,282.13



			11		12		13		14		15
			ringing		ie -in		adends		er Crews	i i	W Install
Designation	Data	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Designation Supervisor	Rate \$ 142.83	1.00	\$ 142.83		\$ -		\$ -		\$ -		\$ -
Foreman	\$ 120.15	2.00	\$ 240.29		\$ -	1.00	\$ 120.15	1.00	\$ 120.15		\$ 120.15
Surveyor	\$ 111.85	1.00	\$ 111.85		\$ -		\$ -		\$ -		\$ -
Lineman	\$ 111.85	7.00	\$ 782.94	2.00	\$ 223.70	2.00	\$ 223.70	0.00	\$ -		\$ 335.55
Apprentice - 4th Year Apprentice - 3rd Year	\$ 103.90 \$ 95.95	4.00	\$ -		\$ - \$ -	2.00	\$ - \$ 191.89	3.00	\$ 311.69		\$ 103.90 \$ 191.89
Apprentice - 2nd Year	\$ 87.99	4.00	\$ -	1.00	\$ 87.99	2.00	\$ -	1.00	\$ 87.99		\$ -
Apprentice - 1st Year	\$ 80.04		\$ -		\$ -		\$ -		\$ -		\$ -
Equipment Operator	\$ 96.49	6.00	\$ 578.96		\$ -	2.00	\$ 192.99		\$ -		\$ 385.97
Truck Driver / Picker Op.	\$ 107.16	7.00	\$ 750.13	1.00	\$ 107.16	1.00	\$ 107.16	1.00	\$ 107.16		\$ 321.48
Labourer 3rd Party Density Tester	\$ 87.44 \$ 243.80		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Carpenter	\$ 243.80		\$ -		\$ -		\$ -		\$ -		\$ -
Telecom Foreman	\$ 87.44		\$ -		\$ -		\$ -		\$ -	<u> </u>	\$ -
Telecom Cable Splicer	\$ 87.44		\$ -		\$ -		\$ -		\$ -		\$ -
Included Super or Operator	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
none	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TOTAL LABOUR		28.00	2,990.79	4.00	418.85	8.00	835.88	6.00	626.99	14.00	1,458.94
		_0.00	_,555.15	7.00	+10.03	3.00	. 555.00	5.00		1-7.00	1,700.34
Pickup	\$ 24.36	2.00	\$ 48.72		\$ -		\$ -	1.00	\$ 24.36	2.00	\$ 48.72
Crew Cab Truck	\$ 29.20	7.00	\$ 204.40		\$ 29.20	2.00	\$ 58.40	1.00	\$ 29.20		\$ 87.60
Conductor Splicing Truck	\$ 46.02	1.00	\$ 46.02		\$ -		\$ -		\$ -		\$ -
OPGW Splicing Truck Picker - 17 Ton	\$ 93.60 \$ 136.27	_	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -
Picker - 38 Ton	\$ 136.27 \$ 180.25	_	\$ -		\$ -	1.00	\$ 180.25	1.00	\$ 180.25	_	\$ -
40T RT Crane	\$ 195.70	2.00	\$ 391.40		\$ -	00	\$ -		\$ -		\$ 391.40
60T RT Crane	\$ 247.20		\$ -		\$ -		\$ -		\$ -		\$ -
80T RT Crane	\$ 345.05		\$ -		\$ -		\$ -		\$ -	_	\$ -
Digger - TelElect 5052	\$ 89.40 \$ 418.72	1.00	\$ 89.40		\$ - \$ -		\$ -		\$ -	1.00	\$ 89.40
200T All-Tr. crane Texoma	\$ 418.72 \$ 162.23		\$ - \$ -		\$ -		\$ -		\$ - \$ -		\$ - \$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -		\$ -		\$ -
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$ -		\$ -		\$ -
53' Tridem trailer	\$ 11.85		\$ -		\$ -		\$ -		\$ -	-	\$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -
T/A Rock Truck Watson 1010	\$ 121.67 \$ 190.55		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	-	\$ - \$ -
Watson 1100	\$ 190.55		\$ - \$ -		\$ -		\$ -		\$ -		\$ - \$ -
Watson 2500	\$ 309.00		\$ -	_	\$ -		\$ -		\$ -	-	\$ -
Soilmec SR65	\$ 437.75		\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer/Picker	\$ 134.67	-	\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer (Heavy)	\$ 134.67	2.00	\$ 269.35		\$ -		\$ - \$ -		\$ - \$ -		\$ 134.67 \$ -
Self-Loader 55' Bucket Truck	\$ 134.67 \$ 81.11		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -
Pole Trailer	\$ 22.04	1	\$ -		\$ -		\$ -		\$ -		\$ -
Crawler Tractors 750 JD	\$ 165.83	2.00	\$ 331.66		\$ -	1.00	\$ 165.83		\$ -	1.00	\$ 165.83
JD 310 Back Hoe	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -
JD 554 Loader	\$ 69.27	2.00	\$ 138.54		\$	4.00	\$ -		\$ -		\$ 69.27
JD 290 Track-hoe Skid-Steer Loader	\$ 130.60 \$ 38.11	2.00	\$ 261.21		\$ - \$ -	1.00	\$ 130.60 \$ -		\$ - \$ -		\$ - \$ -
Nodwells - Picker up to 17 Ton	\$ 170.36		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwells - Picker over 17 Ton	\$ 228.25	2.00	\$ 456.50	1.00	\$ 228.25		\$ -		\$ -		\$ -
Nodwell - Digger	\$ 130.60		\$ -		\$ -		\$ -		\$ -		\$ -
Trencher	\$ 84.36		\$ -		\$ -		\$ -		\$ -		\$ -
10T Tele-Handler LGP Texoma Nodwell	\$ 53. 00 \$ 162.23		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
LGP Texoma Nodwell LGP Highboy ROW Trailer	\$ 162.23 \$ 32.45		\$ -		\$ - \$ -		\$ - \$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -		\$ -		\$ -
Reel Trailer	\$ 72.10	3.00	\$ 216.30		\$ -		\$ -		\$ -		\$ 72.10
Tensioner	\$ 139.05	1.00	\$ 139.05		\$ -		\$ -		\$ -		\$ -
Puller	\$ 139.05 \$ 77.05	1.00	\$ 139.05		\$ -		\$ -		\$ -		\$ -
1 Drum Puller Single Tensioner	\$ 77.25 \$ 77.25		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ 77.25 \$ 77.25
Single Traveller	\$ 77.25		\$ -		\$ -		\$ -		\$ -		\$ 25.75
JD 350 LDC Excavator	\$ 160.89		\$ -		\$ -		\$ -		\$ -		\$ -
Compressor	\$ 22.04		\$ -		\$ -		\$ -		\$ -		\$ -
Grout truck	\$ 82.40		\$ -		\$ -		\$ -		\$ -		\$ -
Rock Drill Press & Pump, Genset, Light plant	\$ 103.00 \$ 13.46	1.00	\$ - \$ 13.46		\$ - \$ -	1.00	\$ - \$ 13.46		\$ - \$ -		\$ - \$ -
Water pump	\$ 13.46 \$ 40.99	1.00	\$ 13.46		\$ - \$ -	1.00	\$ 13.46		\$ -		\$ -
Pilot Line Winder	\$ 92.70		\$ -		\$ -		\$ -		\$ -		\$ 92.70
Wire Winder	\$ 17.69		\$ -		\$ -		\$ -		\$ -	<u> </u>	\$ -
Spacer Buggy	\$ 46.35	, - -	\$ -		\$ -		\$ -	3.00	\$ 139.05		\$ -
Travellers (ea) Traffic Control Sign	\$ 1.24 \$ 21.84	150.00	\$ 185.40 \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Hoe-Pack	\$ 21.84 \$ 25.75		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$ -		\$ -		\$ -
Concrete Pumper	\$ 206.00		\$ -		\$ -		\$ -		\$ -		\$ -
Survey Equipment	\$ 56.65	1.00	\$ 56.65		\$ -		\$ -		\$ -		\$ -
Heavy Lift Helicopter - Operated	\$ 17,725.89 \$ 2,071.08		\$ -		\$ -		\$ -		\$ -		\$ -
Medium Lift Helicopter - Operated Light Duty Helicopter - Operated	\$ 3,071.98 \$ 1,905.50		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
TOTAL EQUIPMENT	Ψ 1,303.30	180.00	⁻ 2,987.10	2.00	υ - 257.45	6.00	548.54	6.00	φ - 372.86		1,331.94
·			,				_	<u>. </u>			,
TOTAL CREW RATE			\$ 5,977.88		\$ 676.30		\$ 1,384.42		\$ 999.85		\$ 2,790.88



			16			17			18			19			20	
		Rider			Found			Foundation	_	vey (\$250/h)	Found			Grillage	Insta	
Designation	Dete	No.	<u> </u>	Rate	No.		Rate	No.		Rate	No.		Rate	No.		Rate
Designation Supervisor	Rate \$ 142.83		\$	_	_	\$	_		\$			\$			\$	_
Foreman	\$ 120.15	1.00	\$	120.15	-	\$	-		\$	-	1.00	\$	120.15	1.00	\$	120.15
Surveyor	\$ 111.85		\$	-	-	\$	-	2.00	\$	223.70	1.00	\$	111.85	1.00	\$	111.85
Lineman Apprentice - 4th Year	\$ 111.85 \$ 103.90	1.00	\$	111.85	-	\$	-		\$	-		\$	-		\$	-
Apprentice - 3rd Year	\$ 95.95		\$	-	-	\$	-		\$	-		\$	-	2.00	\$	191.89
Apprentice - 2nd Year	\$ 87.99	2.00	\$	175.99	1.00	\$	87.99		\$	-		\$	-		\$	-
Apprentice - 1st Year	\$ 80.04	1.00	\$	- 06.40	-	\$	-		\$	-	1.00	\$	80.04	1.00	\$	- 00.40
Equipment Operator Truck Driver / Picker Op.	\$ 96.49 \$ 107.16	1.00 2.00	\$	96.49 214.32	1.00	\$	107.16		\$		3.00	\$	289.48	1.00 1.00	\$	96.49 107.16
Labourer	\$ 87.44		\$	-	-	\$	-		\$	-		\$	-		\$	-
3rd Party Density Tester	\$ 243.80		\$	-	-	\$	-		\$	-		\$	-		\$	-
Carpenter Telecom Foreman	\$ 100.05 \$ 87.44		\$	-	-	\$	-		\$ \$	-		\$	-		\$	-
Telecom Cable Splicer	\$ 87.44		\$	-	-	\$	-		\$	-		\$	-		\$	-
Included Super or Operator	\$ -		\$	-	-	\$	-		\$	-		\$	-		\$	-
none	\$ -		\$	-	-	\$	-		\$	-		\$	-		\$	-
TOTAL LABOUR		7.00		718.80	2.00		195.16	2.00		223.70	6.00		601.52	6.00		627.54
	I															
Pickup Crew Cab Truck	\$ 24.36 \$ 29.20	1.00	\$ \$	29.20	1.00	\$	29.20	1.00	\$	24.36	1.00	\$ \$	24.36	1.00 1.00	\$	24.36 29.20
Conductor Splicing Truck	\$ 29.20 \$ 46.02	1.00	\$	-	-	\$	-		\$		1.00	\$	-	1.00	\$	-
OPGW Splicing Truck	\$ 93.60		\$	-	-	\$	-		\$	-		\$			\$	-
Picker - 17 Ton Picker - 38 Ton	\$ 136.27 \$ 180.25	1.00	\$	136.27	-	\$	-		\$	-		\$	•		\$	-
40T RT Crane	\$ 180.25 \$ 195.70		\$	-	-	\$	-		\$	-		\$	-	1.00	\$	195.70
60T RT Crane	\$ 247.20		\$	-	-	\$	-		\$			\$	7		\$	-
80T RT Crane	\$ 345.05		\$	-	-	\$	-		\$	_		\$	-		\$	-
Digger - TelElect 5052 200T All-Tr. crane	\$ 89.40 \$ 418.72	1.00	\$	89.40	-	\$			\$			\$			\$	-
Texoma	\$ 162.23		\$	-	-	\$	-		\$			\$	-		\$	-
Quad or Side by Side	\$ 24.21		\$	-	-	\$	-		\$			\$			\$	-
120' Gene Lift 53' Tridem trailer	\$ 87.55 \$ 11.85		\$	-	- 4.00	\$	47.38		\$			\$			\$	-
T/A Gravel Truck	\$ 68.13		\$	-	4.00	\$	47.38		\$			\$	-		\$	-
T/A Rock Truck	\$ 121.67		\$	-	-	\$	-		\$	-		\$	-		\$	-
Watson 1010	\$ 190.55		\$	-	-	\$	-		\$	-		\$	-		\$	-
Watson 1100 Watson 2500	\$ 247.20 \$ 309.00		\$ \$		-	\$	-		\$	<u>-</u>		\$	-		\$	-
Soilmec SR65	\$ 437.75		\$	-	-	\$			\$			\$	-		\$	-
Tractor Trailer/Picker	\$ 134.67		\$	-	1.00	\$	134.67		\$			\$	-		\$	-
Tractor Trailer (Heavy) Self-Loader	\$ 134.67 \$ 134.67	1.00	\$	134.67	= "	\$			\$ \$	-		\$	-		\$	-
55' Bucket Truck	\$ 134.67		\$	-	-	\$	-		\$			\$			\$	-
Pole Trailer	\$ 22.04		\$	-	-	\$	-		\$	-		\$	-		\$	-
Crawler Tractors 750 JD	\$ 165.83		\$	-	-	\$	-		\$	-		\$	-		\$	-
JD 310 Back Hoe JD 554 Loader	\$ 68.13 \$ 69.27		\$	-	0.50	\$	34.63		\$	<u>-</u>	1.00	\$	69.27	1.00	\$	69.27
JD 290 Track-hoe	\$ 130.60	1.00	\$	130.60	-	\$			\$	-	1,00	\$	-	1,00	\$	-
Skid-Steer Loader	\$ 38.11		\$	-	-	\$	-		\$	-		\$	-		\$	-
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$ 170.36 \$ 228.25		\$		-	\$	-		\$	-		\$	<u>-</u>		\$	-
Nodwell - Digger	\$ 130.60	1	\$	-	-	\$	-		\$	-		\$	-		\$	-
Trencher	\$ 84.36		\$	-	-	\$	-		\$	-		\$	-		\$	-
10T Tele-Handler LGP Texoma Nodwell	\$ 53.00 \$ 162.23		\$	-/-	-	\$	-		\$	-		\$	-		\$	-
LGP Highboy ROW Trailer	\$ 162.23 \$ 32.45		\$	-	-	\$	-		\$	<u>-</u>		\$	-		\$	-
Quad or Side by Side	\$ 24.21		\$	-	-	\$	-	1.00	\$	24.21		\$	-		\$	-
Reel Trailer	\$ 72.10		\$	-	-	\$	-		\$	-		\$	-		\$	-
Tensioner Puller	\$ 139.05 \$ 139.05		\$	-	-	\$	-		\$	-		\$	-		\$	-
1 Drum Puller	\$ 77.25		\$	-	-	\$	-		\$	-		\$	-		\$	-
Single Tensioner	\$ 77.25		\$	-	-	\$	-		\$	-		\$	-		\$	-
Single Traveller JD 350 LDC Excavator	\$ 0.52 \$ 160.89		\$ \$	-	-	\$	-		\$ \$	-	2.00	\$	321.77		\$	-
Compressor	\$ 22.04		\$	-	-	\$	-		\$	-	2.00	\$			\$	-
Grout truck	\$ 82.40		\$	-	-	\$	-		\$	-		\$	-		\$	-
Rock Drill Press & Pump, Genset, Light plant	\$ 103.00 \$ 13.46		\$	-	-	\$	-		\$	-		\$	-		\$	-
Press & Pump, Genset, Light plant Water pump	\$ 13.46 \$ 40.99		\$	-	-	\$	-		\$	<u> </u>	1.00	\$	40.99		\$	-
Pilot Line Winder	\$ 92.70		\$	-	-	\$	-		\$	-		\$	-		\$	-
Wire Winder	\$ 17.69		\$	-	-	\$	-		\$	-		\$	-		\$	-
Spacer Buggy Travellers (ea)	\$ 46.35 \$ 1.24		\$	-	-	\$	-		\$ \$	-		\$	<u>-</u>		\$	-
Traffic Control Sign	\$ 21.84		\$	-	-	\$	<u>-</u>		\$	-		\$	-		\$	
Hoe-Pack	\$ 25.75		\$	-	-	\$	-		\$	-		\$	-		\$	-
Pile Driving Crew (per m) Concrete Pumper	\$ 211.07 \$ 206.00		\$	-	-	\$	-		\$ \$	-		\$	-		\$	-
Survey Equipment	\$ 206.00 \$ 56.65		\$	-	-	\$	-	1.00	\$	56.65	1.00	\$	56.65	1.00	\$	56.65
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$	-	-	\$	-		\$	-		\$	-		\$	-
Medium Lift Helicopter - Operated			\$	-	-	\$	1		\$	-		\$	-		\$	-
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$ 1,905.50	5.00	\$	- 520.15	- 6.50	\$	245.89	3.00	\$	105.21	7.00	\$	542.24	5.00	\$	375.18
		3.30			3.30			3.30						3.30		
TOTAL CREW RATE			\$	1,238.95		\$	441.04		\$	328.91		\$	1,143.76		\$ 1	,002.72



						Γ		T		<u> </u>	25	l 04	
		Backfill	21 and Compact	Site	22 Cleanup	Gro	23 out Crew	Concret	e Foundations	Grou	25 nd Testing	26 Sign 0	-
		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Designation	Rate										•		
Supervisor Foreman	\$ 142.83 \$ 120.15		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 120.15		\$ - \$ -		\$ - \$ -
Surveyor	\$ 120.15	0.50	\$ 55.92		\$ -		\$ -	1.00	\$ 120.15		\$ -		\$ -
Lineman	\$ 111.85	0.00	\$ -		\$ -		\$ -		\$ -	1.00	\$ 111.85		\$ -
Apprentice - 4th Year	\$ 103.90		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Apprentice - 3rd Year	\$ 95.95		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Apprentice - 2nd Year	\$ 87.99		\$ -		\$ -	0.00	\$ -		\$ -		\$ -	0.00	\$ -
Apprentice - 1st Year Equipment Operator	\$ 80.04 \$ 96.49	3.00	\$ - \$ 289.48	1.00	\$ - \$ 96.49	2.00	\$ 160.08 \$ -		\$ - \$ -	1.00	\$ - \$ 96.49	2.00	\$ 160.08 \$ -
Truck Driver / Picker Op.	\$ 107.16	3.00	\$ -	1.00	\$ -		\$ -	1.00	\$ 107.16	1.00	\$ -		\$ -
Labourer	\$ 87.44	1.00	\$ 87.44		\$ -		\$ -	2.00	\$ 174.87		\$ -		\$ -
3rd Party Density Tester	\$ 243.80	-	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Carpenter	\$ 100.05		\$ -		\$ -	1.00	\$ 100.05	1.00	\$ 100.05		\$ -		\$ -
Telecom Foreman	\$ 87.44		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Telecom Cable Splicer Included Super or Operator	\$ 87.44 \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
none none	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
	•				*		Y						
TOTAL LABOUR		4.50	432.84	1.00	96.49	3.00	260.13	6.00	614.08	2.00	208.34	2.00	160.08
	T						1.						
Pickup	\$ 24.36	0.50	\$ 12.18	4.00	\$ -	-	\$ -	2.00	\$ 48.72	4.00	\$ -	2.00	\$ 48.72
Crew Cab Truck Conductor Splicing Truck	\$ 29.20 \$ 46.02	2.00	\$ 58.40 \$ -	1.00	\$ 29.20 \$ -	1.00	\$ 29.20 \$ -	1.00	\$ 29.2 0	1.00	\$ 29.20 \$ -		\$ - \$ -
OPGW Splicing Truck	\$ 93.60		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Picker - 17 Ton	\$ 136.27		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Picker - 38 Ton	\$ 180.25		\$ -		\$ -		\$ -	1.00	\$ 180.25		\$ -		\$ -
40T RT Crane	\$ 195.70		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
60T RT Crane	\$ 247.20		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
80T RT Crane	\$ 345.05		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Digger - TelElect 5052 200T All-Tr. crane	\$ 89.40 \$ 418.72		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Texoma	\$ 410.72 \$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
53' Tridem trailer	\$ 11.85		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
T/A Rock Truck	\$ 121.67		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 1010 Watson 1100	\$ 190.55 \$ 247.20		\$ - \$ -		\$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ -
Watson 2500	\$ 247.20 \$ 309.00		\$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ -		\$ - \$ -
Soilmec SR65	\$ 437.75		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer/Picker	\$ 134.67		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Self-Loader	\$ 134.67		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
55' Bucket Truck	\$ 81.11		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Pole Trailer	\$ 22.04		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Crawler Tractors 750 JD	\$ 165.83		\$ -		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ -
JD 310 Back Hoe JD 554 Loader	\$ 68.13 \$ 69.27	1.00	\$ - \$ 69.27	1.00	\$ 69.27		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -
JD 290 Track-hoe	\$ 130.60	1.00	\$ 130.60	1.00	\$ -		\$ -		\$ -		\$ -		\$ -
Skid-Steer Loader	\$ 38.11	,	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwells - Picker up to 17 Ton	\$ 170.36		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwells - Picker over 17 Ton	\$ 228. <mark>25</mark>		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwell - Digger	\$ 130.60	4 /	\$ -		\$ -		\$ -		\$ -	-	\$ -		\$ -
Trencher 10T Tolo Handler	\$ 84.36		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
10T Tele-Handler LGP Texoma Nodwell	\$ 53.00 \$ 162.23		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
LGP Highboy ROW Trailer	\$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -		\$ -	1.00	\$ 24.21		\$ -
Reel Trailer	\$ 72.10		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Tensioner	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Puller	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
1 Drum Puller	\$ 77.25 \$ 77.25		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Single Tensioner Single Traveller	\$ 77.25 \$ 0.52		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
JD 350 LDC Excavator	\$ 0.52 \$ 160.89	1.00	\$ 160.89		\$ -		\$ -		\$ -		\$ -		\$ -
Compressor	\$ 22.04		\$ -		\$ -	1.00	\$ 22.04		\$ -		\$ -		\$ -
Grout truck	\$ 82.40		\$ -		\$ -	1.00	,		\$ -		\$ -		\$ -
Rock Drill	\$ 103.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Press & Pump, Genset, Light plant			\$ -		\$ -		\$ -	0.50	\$ 6.73		\$ -		\$ -
Water pump	\$ 40.99	1.00	\$ 40.99		\$ -		\$ -		\$ -		\$ -		\$ -
Pilot Line Winder Wire Winder	\$ 92.70 \$ 17.69		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Spacer Buggy	\$ 17.69 \$ 46.35		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -
Travellers (ea)	\$ 40.33		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Traffic Control Sign	\$ 21.84		\$ -		\$ -		\$ -		\$ -		\$ -	2.00	\$ 43.67
Hoe-Pack	\$ 25.75	1.00	\$ 25.75		\$ -		\$ -		\$ -		\$ -		\$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Concrete Pumper	\$ 206.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Survey Equipment	\$ 56.65	0.50	\$ 28.33		\$ -		\$ -	1.00	\$ 56.65		\$ -		\$ -
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Medium Lift Helicopter - Operated			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$ 1,905.50	8.00	\$ - 526.41	2.00	98.47	3.00	\$ - 133.64	5.50	\$ - 321.55	2.00	53.41	4.00	\$ - 92.39
I O I OF FROILIMIFIA I		0.00	J20.41	2.00	30.41	3.00	133.04	J.30	JZ 1.33	2.00	J3.41	4.00	92.39
TOTAL CREW RATE			\$ 959.25		\$ 194.96		\$ 393.78	1	\$ 935.63	Ī	\$ 261.75		\$ 252.48
						•				•			



			27		28		29		30		31		32	—
			elicopter	Camp Si	te Preparation	Su	pervisory	Sig	gn Crew	Flag	ging Crew	Weldi	ng Suppo	ort
		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	:е
Designation Supervisor	Rate \$ 142.83	2.00	\$ 285.67		\$ -	1.00	\$ 142.83		\$ -		\$ -		\$	
Foreman	\$ 142.83 \$ 120.15	5.00	\$ 285.67	1.00	\$ - \$ 120.15	1.00	\$ 142.83		\$ - \$ -		\$ -		\$	-
Surveyor	\$ 111.85	0.00	\$ -	0.50			\$ -		\$ -		\$ -		\$	_
Lineman	\$ 111.85	8.00	\$ 894.79		\$ -		\$ -		\$ -		\$ -		-	-
Apprentice - 4th Year	\$ 103.90	8.00	\$ 831.18		\$ -		\$ -		\$ -		\$ -		т	-
Apprentice - 3rd Year	\$ 95.95	8.00	\$ 767.57		\$ -		\$ -		\$ -		\$ -		Ψ	-
Apprentice - 2nd Year Apprentice - 1st Year	\$ 87.99 \$ 80.04		\$ - \$ -		\$ - \$ -		\$ - \$ -	2.00	\$ - \$ 160.08	2.00	\$ - \$ 160.08	1.00	\$ \$ 80	- 0.04
Equipment Operator	\$ 96.49	1.00	\$ 96.49	3.00	\$ 289.48		\$ -	2.00	\$ -	2.00	\$ 100.00		_	6.49
Truck Driver / Picker Op.	\$ 107.16	1.00	\$ 107.16	0.00	\$ -		\$ -		\$ -		\$ -	1100	\$	-
Labourer	\$ 87.44		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
3rd Party Density Tester	\$ 243.80		\$ -		\$ -		\$ -		\$ -		\$ -			-
Carpenter –	\$ 100.05		\$ -		\$ -		\$ -		\$ -		\$ -		-	-
Telecom Foreman Telecom Cable Splicer	\$ 87.44 \$ 87.44		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		•	-
Included Super or Operator	\$ 67.44	4.00	\$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ -			-
none	\$ -	1100	\$ -		\$ -		\$ -		\$ -		\$ -		_	-
TOTAL LABOUR		37.00	3,583.59	4.50	465.55	1.00	142.83	2.00	160.08	2.00	160.08	2.00	176	3.53
												<u> </u>		
Pickup Crew Cab Truck	\$ 24.36 \$ 29.20	2.00 10.00	\$ 48.72 \$ 292.01	1.00 1.00	\$ 24.36 \$ 29.20	1.00	\$ 24.36 \$ -	2.00	\$ 48.72 \$ -	2.00	\$ 48.72 \$ -	1.00	\$ 29	- 9.20
Conductor Splicing Truck	\$ 29.20 \$ 46.02	10.00	\$ 292.01	1.00	\$ 29.20		\$ -		\$ -		\$ -	1.00	_	9.20
OPGW Splicing Truck	\$ 93.60		\$ -		\$ -		\$ -		\$ -		\$ -			-
Picker - 17 Ton	\$ 136.27		\$ -		\$ -		\$ -		\$ -		\$ -			-
Picker - 38 Ton	\$ 180.25	1.00	\$ 180.25		\$ -		\$ -		\$ -		\$ -		_	-
40T RT Crane	\$ 195.70		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
60T RT Crane	\$ 247.20		\$ -		\$ -		\$ -		\$ -		\$ -		•	-
80T RT Crane	\$ 345.05		\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$	-
Digger - TelElect 5052	\$ 89.40 \$ 418.72		\$ -		\$ -		\$ -		\$ -		\$ -	1.00		9.40
200T All-Tr. crane Texoma	\$ 418.72 \$ 162.23		\$ - \$ -		\$ - \$ -		\$ -		\$ -		\$ - \$ -		Φ.	-
Quad or Side by Side	\$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
53' Tridem trailer	\$ 11.85		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
T/A Rock Truck	\$ 121.67		\$ -	1.00	\$ 121.67		\$ -		\$ -		\$ -		\$	-
Watson 1010	\$ 190.55		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Watson 1100	\$ 247.20		\$ -		\$ -		\$ -		\$ -		\$ -		\$	
Watson 2500	\$ 309.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Soilmec SR65	\$ 437.75		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$ 134.67 \$ 134.67		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$	-
Self-Loader	\$ 134.67		\$ -		\$ -		\$ -		\$ -		\$ -		\$	<u>-</u>
55' Bucket Truck	\$ 81.11		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
Pole Trailer	\$ 22.04		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Crawler Tractors 750 JD	\$ 165.83		\$ -	1.00	\$ 165.83		\$ -		\$ -		\$ -		\$	-
JD 310 Back Hoe	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -		Ψ	-
JD 554 Loader	\$ 69.27	1.00	\$ 69.27		\$		\$ -		\$ -		\$ -		Ψ	-
JD 290 Track-hoe	\$ 130.60		\$ -	1.00	\$ 130.60		\$ -		\$ -		\$ -		\$	-
Skid-Steer Loader	\$ 38.11 \$ 170.36		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$ 170.36 \$ 228.25		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$	_
Nodwell - Digger	\$ 130.60		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Trencher	\$ 84.36		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
10T Tele-Handler	\$ 53.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
LGP Texoma Nodwell	\$ 162.23		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
LGP Highboy ROW Trailer	\$ 32.45		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Quad or Side by Side	\$ 24.21		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Reel Trailer	\$ 72.10 \$ 139.05		\$ - \$ -		\$ - \$ -		\$ -		\$ -		\$ - \$ -		\$	-
Tensioner Puller	\$ 139.05 \$ 139.05		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$	<u>-</u>
1 Drum Puller	\$ 139.05		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Single Tensioner	\$ 77.25		\$ -		\$ -		\$ -		\$ -		\$ -		Φ.	-
Single Traveller	\$ 0.52		\$ -		\$ -		\$ -		\$ -		\$ -		Φ.	-
JD 350 LDC Excavator	\$ 160.89		\$ -		\$ -		\$ -		\$ -		\$ -		Ψ	-
Compressor	\$ 22.04		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Grout truck	\$ 82.40		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Rock Drill Proce & Rump, Geneet, Light plant	\$ 103.00 \$ 13.46		\$ -		\$ -		\$ -		\$ -		\$ -		\$	-
Press & Pump, Genset, Light plant Water pump	\$ 13.46 \$ 40.99		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$	_
Pilot Line Winder	\$ 40.99 \$ 92.70		\$ -		\$ -		\$ -		\$ - \$ -		\$ - \$ -		_	-
Wire Winder	\$ 92.70 \$ 17.69		\$ -		\$ -		\$ -		\$ -		\$ -		_	-
Spacer Buggy	\$ 46.35		\$ -		\$ -		\$ -		\$ -		\$ -		_	-
Travellers (ea)	\$ 1.24		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
Traffic Control Sign	\$ 21.84		\$ -		\$ -		\$ -	2.00	\$ 43.67		\$ -		\$	-
Hoe-Pack	\$ 25.75		\$ -		\$ -		\$ -		\$ -		\$ -		\$	_
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$ -		\$ -		\$ -			-
Concrete Pumper	\$ 206.00		\$ -		\$ -		\$ -		\$ -	-	\$ -		\$	-
Survey Equipment	\$ 56.65		\$ -	0.50	\$ 28.33		\$ -		\$ -	-	\$ -		•	-
Heavy Lift Helicopter - Operated	\$ 17,725.89 \$ 3,071.08		\$ 17,725.89		\$ - \$ -		\$ - \$ -		\$ -		\$ -			-
Medium Lift Helicopter - Operated Light Duty Helicopter - Operated	\$ 3,071.98 \$ 1,905.50		\$ - \$ -	_	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		_	-
TOTAL EQUIPMENT	ψ 1,303.30	15.00	18,316.13	5.50	φ - 499.99	1.00	24.36	4.00	φ - 92.39	2.00	φ - 48.72	2.00	Ψ 118	
		2.00	-,											
TOTAL CREW RATE			\$ 21,899.72	L	\$ 965.54	<u>L</u>	\$ 167.19	<u> </u>	\$ 252.48		\$ 208.80	<u> </u>	\$ 295	<u>5</u> .14
			,			•								_



Designation Supervisor Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year Equipment Operator	Rate \$ 142		Roads No.	and Reclaim	Heli No.	34 Sockinstali		35 chor Crew		36 Foundations	Bi	37 rd Diverter	Pole	38 Tag Crew
Supervisor Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year	\$ 142		No.	Rate	No	Data								
Supervisor Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year	\$ 142				NO.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Foreman Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year				•		•		•		•			4.00	* 440.00
Surveyor Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year	φ 12t		1.00	\$ - \$ 120.15		\$ - \$ -	1.00	\$ - \$ 120.15	1.00	\$ - \$ 120.15	1.00	\$ - \$ 120.15	1.00	\$ 142.83 \$ 120.15
Lineman Apprentice - 4th Year Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year	-	1.85	1.00	\$ -		\$ -	1.00	\$ 120.13	1.00	\$ 120.13		\$ -	1.00	\$ 120.13
Apprentice - 3rd Year Apprentice - 2nd Year Apprentice - 1st Year		1.85		\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$ 111.85
Apprentice - 2nd Year Apprentice - 1st Year	•	3.90		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Apprentice - 1st Year	-	5.95		\$ -		\$ -	1.00	\$ 95.95		\$ -		\$ -		\$ -
		7.99		\$ -		\$ -		\$ -	1.00	\$ 87.99	2.00	\$ 175.99	1.00	\$ 87.99
and the state of t		0. 04 6.49	4.00	\$ - \$ 385.97		\$ - \$ -	1.00	\$ - \$ 96.49	1.00	\$ - \$ 96.49		\$ - \$ -		\$ - \$ -
Truck Driver / Picker Op.		7.16	4.00	\$ -		\$ -	1.00	\$ 107.16	1.00	\$ -	2.00	\$ 214.32		\$ -
Labourer		7.44		\$ -		\$ -		\$ -		\$ -	2.00	\$ 174.87		\$ -
3rd Party Density Tester	•	3.80		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Carpenter		0.05		\$ -		\$ -		\$ -	1.00	\$ 100.05		\$ -		\$ -
Telecom Foreman	•	7.44		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Telecom Cable Splicer Included Super or Operator	\$ 87 \$	7.44		\$ - \$ -	1.00	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
none	\$	-		\$ -	-	\$ -		\$ -		\$ -		\$ -		\$ -
						,				·		•		
TOTAL LABOUR			5.00	506.12	1.00	-	4.00	419.75	5.00	516.53	7.00	685.33	4.00	462.82
Dioloup	¢ -	1.00	4.00	¢ 0400		¢		¢	0.00	¢ 40.70	4.00	04.00		¢
Pickup Crew Cab Truck		4.36 9.20	1.00 1.00	\$ 24.36 \$ 29.20		\$ - \$ -	1.00	\$ - \$ 29.20	2.00 1.00	\$ 48.72 \$ 29.20		\$ 24.36 \$ 29.20	1.00	\$ - \$ 29.20
Conductor Splicing Truck		6.02	1.00	\$ 29.20		\$ -	1.00	\$ 29.20	1.00	\$ 29.20	1.00	\$ 29.20	1.00	\$ 29.20
OPGW Splicing Truck		3.60		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Picker - 17 Ton	\$ 136	6.27		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Picker - 38 Ton	-	0.25		\$ -		\$ -		\$ -		\$ -	1.00	\$ 180.25		\$ -
40T RT Crane		5.70		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
60T RT Crane 80T RT Crane		7.20 5.05		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -		\$ -
Digger - TelElect 5052		9.40		\$ -		\$ -	1.00	\$ 89.40	-	\$ -		\$ -		\$ -
200T All-Tr. crane		3.72		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Texoma	\$ 162	2.23		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Quad or Side by Side	,	4.21		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
120' Gene Lift	-	7.55		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
53' Tridem trailer T/A Gravel Truck		1.85 3.13		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	>	\$ - \$ -		\$ - \$ -
T/A Rock Truck	-	1.67	1.00	\$ 121.67		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 1010		0.55		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 1100	\$ 247	7.20		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Watson 2500	-	9.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Soilmec SR65		7.75		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Tractor Trailer/Picker Tractor Trailer (Heavy)		4.67 4.67		\$ - \$ -		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Self-Loader		4.67		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
55' Bucket Truck	-	1.11		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Pole Trailer	\$ 22	2.04		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Crawler Tractors 750 JD		5.83	1.00	\$ 165.83		\$ -		\$ -		\$ -		\$ -		\$ -
JD 310 Back Hoe		3.13	4.00	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
JD 554 Loader JD 290 Track-hoe		9.27 0.60	1.00	\$ 69.27 \$ 130.60		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 130.60		\$ - \$ -		\$ - \$ -
Skid-Steer Loader		3.11	1.00	\$ -		\$ -		\$ -	1.00	\$ -		\$ -		\$ -
Nodwells - Picker up to 17 Ton		0.36		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwells - Picker over 17 Ton		3.25	_	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Nodwell - Digger		0.60	1	\$ -		\$ -	-	\$ -		\$ -		\$ -		\$ -
Trencher 10T Tele Handler		4.36		\$ - ¢		\$ - \$ -		\$ -		\$ -		\$ - \$ -		\$ - \$ -
10T Tele-Handler LGP Texoma Nodwell		3. 00 2.2 3		\$ - \$ -		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
LGP Highboy ROW Trailer		2.45		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Quad or Side by Side		4.21		\$ -		\$ -		\$ -		\$ -	2.00	\$ 48.41	2.00	\$ 48.41
Reel Trailer		2.10		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Tensioner Duller	-	9.05		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Puller 1 Drum Puller		9.05 7.25		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Single Tensioner		7.25 7.25		\$ - \$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Single Traveller		0.52		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
JD 350 LDC Excavator	\$ 160	0.89		\$ -		\$ -	1.00	\$ 160.89		\$ -		\$ -		\$ -
Compressor		2.04		\$ -		\$ -		\$ -	1.00	\$ 22.04		\$ -		\$ -
Grout truck		2.40		\$ -		\$ -		\$ -	4.00	\$ -		\$ -		\$ -
Rock Drill Press & Pump, Genset, Light plant		3.00 3.46		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ 103.00 \$ 13.46		\$ - \$ -		\$ - \$ -
Water pump		0.99		\$ -		\$ -		\$ -	1.00	\$ 13.40		\$ -		\$ -
Pilot Line Winder		2.70		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Wire Winder	\$ 17	7.69		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Spacer Buggy		6.35		\$ -		\$ -		\$ -		\$ -	2.00	\$ 92.70		\$ -
Travellers (ea)		1.24		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Traffic Control Sign Hoe-Pack		1.84 5.75		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Pile Driving Crew (per m)		1.07		\$ -		\$ - \$ -		\$ -		\$ -		\$ -		\$ -
Concrete Pumper		6.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Survey Equipment	\$ 56	6.65		\$ -		\$ -		\$ -	1.00	\$ 56.65		\$ -		\$ -
Heavy Lift Helicopter - Operated	\$ 17,725			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Medium Lift Helicopter - Operated	\$ 3,071			\$ -	1.00	\$ - \$ 1,005,50		\$ -		\$ -		\$ -		\$ -
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$ 1,905	J.5U	6.00	\$ - 540.93	1.00 1.00	\$ 1,905.50 1,905.50	3.00	\$ - 279.49	8.00	\$ - 403.67	7.00	\$ - 374.92	3.00	\$ - 77.61
. JIAL EXUII MEMI		J	0.00	J7U.33	1.00	1,303.30	0.00	<u> </u>	0.00	1 703.07	1.00	J14.32	J 3.00	11.01
				\$1,047.05		\$ 1,905.50	I	\$ 699.24	Ī	\$ 920.20	I	\$1,060.25	1	\$ 540.43



				39			4	0		4	1		4:	2		4	3		44	
			G	uy Install		Y- To	ower	Erection	To	wer l	Plumb	OF	PGW	Splice	Coun	terpo	oise Instal	L/A	Ассо	unt
			No.	Rate		No.		Rate	No.		Rate	No.		Rate	No.		Rate	No.	R	ate
Designation	*	Rate		Φ.			Φ.			Φ			Φ.			Φ.			Φ.	
Supervisor Foreman	\$ \$	142.83 120.15	1.00	\$ \$ 120	15	1.00	\$	120.15	1.00	\$	120.15		\$	-	1.00	\$	120.15		\$	-
Surveyor	\$	111.85	0.50		.92	1.00	\$	-	1.00		111.85		\$		1.00	\$	111.85		\$	
Lineman	\$	111.85	2.00	\$ 223		1.00	\$	111.85	1.00	_	111.85		\$	-		\$	-		\$	-
Apprentice - 4th Year	\$	103.90		\$		1.00	\$	103.90		\$	-		\$	-		\$	-		\$	-
Apprentice - 3rd Year	\$	95.95	2.00	\$ 191		2.00	\$	191.89	2.00		191.89		\$	-		\$	-		\$	-
Apprentice - 2nd Year	\$	87.99		Ψ	_	1.00	\$	87.99	2.00	Ė	175.99		\$	-		\$	-		\$	-
Apprentice - 1st Year Equipment Operator	\$	80.04 96.49	1.00	Ψ	.49	1.00	\$	80.04 96.49		\$	-		\$	<u>-</u>	2.00	\$	192.99		\$	-
Truck Driver / Picker Op.	\$	107.16	1.00	\$ 107		1.00	\$	107.16		\$	_		\$		2.00	\$	-		\$	-
Labourer	\$	87.44		_			\$	-		\$	-		\$	-		\$	-		\$	-
3rd Party Density Tester	\$	243.80		\$			\$	-		\$	-		\$	-		\$	-		\$	-
Carpenter	\$	100.05		т			\$	-		\$	-		\$	-		\$	-		\$	-
Telecom Foreman	\$	87.44		Ψ	.		\$	-		\$	-	1.00	\$	87.44		\$	-		\$	-
Telecom Cable Splicer Included Super or Operator	\$ \$	87.44		\$			\$	-		\$		1.00	\$	87.44		\$	-	1.00	\$	-
none	\$	-		\$			\$	-		\$	-		\$	-		\$	-	1.00	\$	-
				,																
TOTAL LABOUR			7.50	795	.31	9.00		899.47	7.00		711.72	2.00		174.87	4.00		424.98	1.00		-
										_										
Pickup Crow Cab Truck	\$ \$	24.36 29.20	0.50		.18 .40	2.00	\$	24.36 58.40	2.00	\$	24.36	1.00	\$	20.20	1.00	\$	24.36		\$	-
Crew Cab Truck Conductor Splicing Truck	\$	29.20 46.02	2.00		.40	2.00	\$	58.40	2.00	\$	58.40	1.00	\$	29.20	1.00	\$	29.20		\$	-
OPGW Splicing Truck	\$	93.60					\$	-		\$	-	1.00	\$	93.60		\$			\$	-
Picker - 17 Ton	\$	136.27		\$			\$	-		\$	-		\$	-		\$	-		\$	-
Picker - 38 Ton	\$	180.25	1.00	\$ 180	25		\$	-		\$	-		\$	-		\$	-		\$	-
40T RT Crane	\$	195.70		Ψ			\$	-		\$	-		\$			\$	-		\$	-
60T RT Crane	\$	247.20		Ψ		4.00	\$	- 045.05		\$	/-		\$			\$	-	*	\$	-
80T RT Crane Digger - TelElect 5052	\$	345.05 89.40		•		1.00	\$	345.05		\$	-		\$			\$			\$	-
200T All-Tr. crane	\$	418.72					\$	-		\$	-		\$			\$	-		\$	-
Texoma	\$	162.23		\$			\$	-		\$	-		\$			\$	-		\$	-
Quad or Side by Side	\$	24.21		\$			\$	-		\$			\$	-		\$	-		\$	-
120' Gene Lift	\$	87.55		\$.		\$	-		\$	-		\$	-		\$	-		\$	-
53' Tridem trailer	\$	11.85		\$			\$	-	-	\$	-		\$			\$	-		\$	-
T/A Gravel Truck T/A Rock Truck	\$	68.13 121.67					\$	-	_	\$	-		\$			\$	-		\$	-
Watson 1010	\$	190.55		_			\$	-		\$			\$			\$	_		\$	<u> </u>
Watson 1100	\$	247.20					\$	-		\$	-		\$	-		\$	-		\$	-
Watson 2500	\$	309.00		\$	/		\$	- 4		\$	-		\$			\$	-		\$	-
Soilmec SR65	\$	437.75		Ψ		4	\$	-		\$	-		\$	-		\$	-		\$	-
Tractor Trailer/Picker	\$	134.67		Ψ			\$			\$			\$	-		\$	-		\$	-
Tractor Trailer (Heavy) Self-Loader	\$	134.67 134.67		•			\$	-		\$	-		\$	-		\$	-		\$	-
55' Bucket Truck	\$	81.11					\$	-		\$	-		\$	<u> </u>		\$	-		\$	-
Pole Trailer	\$	22.04					\$	-		\$			\$	-		\$	-		\$	-
Crawler Tractors 750 JD	\$	165.83		\$			\$	-		\$	-		\$	-		\$	-		\$	-
JD 310 Back Hoe	\$	68.13		\$			\$	-		\$	-		\$	-		\$	-		\$	-
JD 554 Loader	\$	69.27	1.00	\$ 69	.27	-	\$	-		\$	-		\$			\$	-		\$	-
JD 290 Track-hoe Skid-Steer Loader	\$	130.60 38.11		\$		1.00	\$	130.60		\$	-		\$	-		\$	-		\$	-
Nodwells - Picker up to 17 Ton	\$	170.36					\$	-		\$	-		\$			\$	-		\$	-
Nodwells - Picker over 17 Ton	\$	228.25	-	1			\$			\$	-		\$	-		\$	-		\$	-
Nodwell - Digger	\$	130.60	<i>a</i> 1				\$	-		\$	-		\$	-	1.00	\$	130.60		\$	-
Trencher	\$	84.36	Y 🙏	-			\$	-		\$	-		\$	-	1.00	\$	84.36		\$	
10T Tele-Handler	\$	53.00		Ψ			\$	-		\$	-		\$	-		\$	-		\$	-
LGP Texoma Nodwell	\$ \$	162.2 3 32. 4 5		\$			\$	-		\$	-		\$	-		\$ \$	-		\$	-
LGP Highboy ROW Trailer Quad or Side by Side	\$	24.21	1.00	\$ 24	21	1.00	\$	24.21	2.00	\$	- 48.41		\$	<u> </u>		\$	-		\$	
Reel Trailer	\$	72.10	1.00			1.00	\$	-	2.00	\$	-		\$	-		\$	-		\$	-
Tensioner	\$	139.05					\$	-		\$	-		\$	-		\$	-		\$	-
Puller	\$	139.05		Ψ			\$	-		\$	-		\$	-		\$	-		\$	-
1 Drum Puller	\$	77.25	1.00		.25		\$	-		\$	-		\$	-		\$	-		\$	-
Single Tensioner	\$	77.25		Ψ	-		\$	-		\$	-		\$	-		\$	-		\$	-
Single Traveller JD 350 LDC Excavator	\$ \$	0.52 160.89		\$			\$	-		\$	-		\$	-		\$	-		\$	-
Compressor	\$	22.04		\$			\$	-		\$	-		\$	-		\$	-		\$	-
Grout truck	\$	82.40		\$			\$			\$			\$			\$			\$	-
Rock Drill	\$	103.00		-			\$	-		\$	-		\$	-		\$	-		\$	-
Press & Pump, Genset, Light plant		13.46	1.00		.46		\$	-	1.00	\$	13.46		\$	-		\$	-		\$	-
Water pump	\$	40.99		•			\$	-		\$	-		\$	-		\$	-		\$	-
Pilot Line Winder Wire Winder	\$	92.70 17.69			·		\$	-		\$	-		\$	-		\$	-		\$	-
Spacer Buggy	\$	46.35					\$	-		\$	-		\$	-		\$	-		\$	-
Travellers (ea)	\$	1.24					\$	-		\$	-		\$	_		\$	-		\$	-
Traffic Control Sign	\$	21.84		_			\$	-		\$	-		\$	-		\$	-		\$	-
Hoe-Pack	\$	25.75		_ '			\$	-		\$	-		\$	-		\$	-		\$	-
Pile Driving Crew (per m)	\$	211.07		т	-		\$	-		\$	-		\$	-		\$	-		\$	-
Concrete Pumper Survey Equipment	\$	206.00 56.65	0.50	\$ 28	.33		\$	-	1.00	\$ \$	- 56.65		\$		1.00	\$	- 56.65		\$	-
Heavy Lift Helicopter - Operated		17,725.89	0.50		. 33		\$	-	1.00	\$	-		\$	<u> </u>	1.00	\$	56.65		\$	-
	\$	3,071.98		_			\$	-		\$	-		\$	-		\$	-		\$	-
Light Duty Helicopter - Operated	\$	1,905.50		\$			\$	_		\$	-		\$			\$	-		\$	-
TOTAL EQUIPMENT			8.00	463	.34	6.00		582.62	7.00		201.28	2.00		122.80	5.00		325.17	-		-
		 _		_ 											- 					
TOTAL CREW RATE				\$1,258	.65		\$	1,482.09		\$	913.00		\$	297.67		\$	750.15		\$	-



				45		46		47		48		49		50	99
				45 np Setup		np Haul	G	eotech		48 Assembly	Woo	d Erection		Stringing	99
		No		Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No. Rate
Designation	Rate														
Supervisor	\$ 142			\$ 142.83		\$ -	1.00	\$142.83	4.00	\$ -	4.00	\$ -	4.00	\$ -	\$ -
Foreman Surveyor	\$ 120 \$ 111	_	_	\$ 120.15 \$ 55.92		\$ - \$ -		\$ - \$ -	1.00	\$120.15 \$ -	1.00	\$ 120.15 \$ -	1.00	\$ 120.15 \$ -	\$ - \$ -
Lineman	\$ 111			\$ 111.85		\$ -		\$ -	1.00	\$111.85	1.00	\$ 111.85	3.00	\$ 335.55	\$ -
Apprentice - 4th Year	\$ 103	_		\$ -		\$ -		\$ -		\$ -	1.00	\$ 103.90	2.00	\$ 207.79	\$ -
Apprentice - 3rd Year	\$ 95	.95		\$ -		\$ -		\$ -	1.00	\$ 95.95		\$ -	2.00	\$ 191.89	\$ -
Apprentice - 2nd Year	\$ 87			\$ -		\$ -		\$ -		\$ -		\$ -	2.00	\$ 175.99	\$ -
Apprentice - 1st Year	\$ 80		0.0	\$ -		\$ -	4.00	\$ -	4.00	\$ -	4.00	\$ -	0.00	\$ -	\$ -
Equipment Operator Truck Driver / Picker Op.	\$ 96 \$ 107	49 2.	00	\$ 192.99 \$ 107.16	1.00	\$ - \$107.16	1.00 0.25	\$ 96.49 \$ 26.79	1.00 1.00	\$ 96.49 \$107.16	1.00 2.00	\$ 96.49 \$ 214.32	2.00	\$ 192.99 \$ 214.32	\$ - \$ -
Labourer	-	44 3.	_	\$ 262.31	1.00	\$ -	1.00	\$ 87.44	1.00	\$ -	2.00	\$ -	2.00	\$ -	\$ -
3rd Party Density Tester	\$ 243			\$ -		\$ -	1100	\$ -		\$ -		\$ -		\$ -	\$ -
Carpenter	\$ 100	.05 3.0	00	\$ 300.15		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Telecom Foreman	\$ 87	_		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Telecom Cable Splicer	\$ 87			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Included Super or Operator none				\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ -
none	Ψ			φ -		φ -		Φ -		Φ -		φ -		Φ -	φ -
TOTAL LABOUR		12.	50	1,293.35	1.00	107.16	3.25	353.55	5.00	531.60	6.00	646.71	14.00	1,438.68	
Pickup	\$ 24		_	\$ 24.36		\$ -	1.00	\$ 24.36		\$ -		\$ -	1.00	\$ 24.36	\$ -
Crew Cab Truck	-		00	\$ 58.40		\$ -	1.00	\$ 29.20	1.00	\$ 29.20	2.00	\$ 58.40	3.00	\$ 87.60	\$ -
Conductor Splicing Truck OPGW Splicing Truck		.60		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -
Picker - 17 Ton	\$ 93 \$ 136			\$ -		\$ -		\$ -	1.00	\$ - \$136.27		\$ -		\$ -	\$ -
Picker - 38 Ton	\$ 180			\$ -		\$ -		\$ -	1.00	\$ -		\$ -	2.00	\$ 360.50	\$ -
40T RT Crane	\$ 195		00	\$ 195.70		\$ -		\$ -		\$ -	1.00	\$ 195.70		\$ -	\$ -
60T RT Crane	\$ 247	_		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
80T RT Crane	\$ 345			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Digger - TelElect 5052	\$ 89 \$ 418	_		\$ - \$ -		\$ - \$ -		\$ -		\$ - \$ -	-	\$ -	-	\$ - \$ -	\$ - \$ -
200T All-Tr. crane Texoma	\$ 418 \$ 162			\$ - \$ -		\$ - \$ -		\$ -		\$ -		\$ -		\$ - \$ -	\$ -
Quad or Side by Side	\$ 102			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
120' Gene Lift	<u> </u>	.55		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
53' Tridem trailer	\$ 11	.85		\$ -		\$ -		\$ -		\$ -	Á	\$ -		\$ -	\$ -
T/A Gravel Truck	\$ 68	_		\$ -		\$ -		\$ -		\$ -	1.00	\$ 68.13		\$ -	\$ -
T/A Rock Truck	\$ 121			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Watson 1010 Watson 1100	\$ 190 \$ 247			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -
Watson 2500	\$ 309			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Soilmec SR65	\$ 437			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Tractor Trailer/Picker	\$ 134	67 1.0	00	\$ 134.67		\$ -	0.25	\$ 33.67	>	\$ -		\$ -		\$ -	\$ -
Tractor Trailer (Heavy)	\$ 134			\$ -	1.00	\$134.67		\$ -		\$ -		\$ -		\$ -	\$ -
Self-Loader	\$ 134		_	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
55' Bucket Truck Pole Trailer	\$ 81 \$ 22	04		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -
Crawler Tractors 750 JD	\$ 165	_	00	\$ 165.83		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
JD 310 Back Hoe		13		\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$ 68.13	\$ -
JD 554 Loader	\$ 69	.27 1.	00	\$ 69.27		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
JD 290 Track-hoe	\$ 130		00	\$ 130.60		\$ -	1.00	\$130.60		\$ -	1.00	\$ 130.60	1.00	\$ 130.60	\$ -
Skid-Steer Loader		.11		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$ 170 \$ 228			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -
Nodwell - Digger	\$ 130			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Trencher Trencher	\$ 84			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
10T Tele-Handler		00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
LGP Texoma Nodwell	\$ 162	_		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
LGP Highboy ROW Trailer		45	Ų	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Quad or Side by Side Reel Trailer	\$ 24 \$ 72	10		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	1.00	\$ - \$ 72.10	\$ - \$ -
Tensioner Tensioner	\$ 139			\$ -		\$ -		\$ -		\$ -		\$ -	1.00	\$ 72.10	\$ -
Puller	\$ 139			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
1 Drum Puller	\$ 77			\$ -		\$ -		\$ -		\$ -		\$ -	-	\$ -	\$ -
Single Tensioner	\$ 77			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Single Traveller		.52		\$ -		\$ -		\$ -		\$ -		\$ -	-	\$ -	\$ -
JD 350 LDC Excavator Compressor	\$ 160 \$ 22	.04		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ -
Grout truck	· '	40		\$ -		\$ -		\$ -		\$ -		\$ -		¢ _	\$ -
Rock Drill	\$ 103			\$ -		\$ -		\$ -		\$ -	1.00	\$ 103.00		\$ -	\$ -
Press & Pump, Genset, Light plant	\$ 13	46		\$ -		\$ -		\$ -	1.00	\$ 13.46	1.00	\$ 13.46	1.00	\$ 13.46	\$ -
Water pump		.99		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Pilot Line Winder		.70		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Wire Winder Spacer Buggy		.35		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -
Travellers (ea)		.24		\$ -		\$ -		\$ -		\$ -		\$ -	200.00	\$ 247.20	\$ -
Traffic Control Sign		.84		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Hoe-Pack		75		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Pile Driving Crew (per m)	\$ 211			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Concrete Pumper	\$ 206		F.C.	\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Survey Equipment			50	\$ 28.33		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
Heavy Lift Helicopter - Operated Medium Lift Helicopter - Operated	\$ 17,725 \$ 3,071			\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -
Light Duty Helicopter - Operated	\$ 1,905			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	\$ -
TOTAL EQUIPMENT	.,000		50	807.16	1.00	134.67	3.25	217.83	3.00	178.93	7.00	569.30	210.00	1,003.96	
-									_						
TOTAL CREW RATE				\$ 2,100.51		\$241.83		\$571.38		\$710.52		\$1,216.00		\$2,442.63	\$ -
		· <u>-</u>	_		· <u>-</u>	_	<u> </u>		_	_	· <u>-</u>		_	·	

92.95

 Unloaded Hourly Rate
 DT
 Multiplier

153.5

153.5

121.5

140.7

121.5

96.76 121.51

129.36

123.26

123.26

96.76

1.00

1.00 \$

1.00

1.00 \$

1.00

1.00

1.00

1.00 1.00 1.00

1.00

1.00

1.00 \$

Blended Hourly

Rate

142.83

131.69 120.15

117.18

111.85

111.85

103.90 95.95

87.99 80.04 96.49 107.16 87.44

100.05

87.44

87.44

CIMFP Exhibit P-01886

Personnel Rates Supervisor

Apprentice - 4th Year Apprentice - 3rd Year

Apprentice - 2nd Year

Apprentice - 1st Year

Equipment Operator

Telecom Foreman

Telecom Cable Splicer

Truck Driver / Picker Op

Senior Foreman

Sub-Foreman

Foreman

Surveyor Lineman

Labourer

Carpenter

Based On 11.0 Hours per Day 7.0 Days per Week 77.0 Hour Week

Loaded Hourly Rate
OT DT

100.67 \$ 150.40 \$ 200.23 99.28 \$ 132.75 \$ 166.23

97.02 \$ 129.36 \$ 161.71

92.95 \$ 123.26 \$ 153.58

92.95 \$ 123.26 \$ 153.58

86.89 \$ 114.17 \$ 141.45 80.83 \$ 105.08 \$ 129.33

78.91 \$ 107.12 \$ 135.32 87.04 \$ 119.32 \$ 151.59 72.01 \$ 96.76 \$ 121.51

81.62 \$ 111.18 \$ 140.74

74.77 \$

68.71 \$

72.01 \$

72.01 \$

163.13 \$ 217.18

95.99 \$ 117.20 86.89 \$ 105.08

96.76 \$ 121.51

96.76 \$ 121.51

	11.0	Hours per L	•												
	7.0	Days per W	leek												
	77.0	Hour Week				Daily Liv	ing Allowance	\$ -	Assumes 0% no	LA					
							LA For	7	days / week			ST & OT	Rates		
T	H	lours Per Wee	ek		Wag	e Cost		Weekly Living	Weekly Cost	Blended	Cost Per Hour	c/w Suste	nance		
T	ST	OT	DT	ST	OT	DT	<u>Total</u>	Cost	Total	Hours	Cost		<u>ST</u>	<u>OT</u>	<u>DT</u>
					-								_		
T	40.0	26.0	11.0	\$ 4,367.66	\$ 4,241.44	\$ 2,389.00	\$ 10,998.11	\$ -	\$ 10,998.11	77.0	\$ 142.83	Supervisor	\$ 109.19	\$ 163.13 \$	217.18
Ι	40.0	26.0	11.0	\$ 4,026.80	\$ 3,910.42	\$ 2,202.56	\$ 10,139.77	\$ -	\$ 10,139.77	77.0	\$ 131.69	Senior Foreman	\$ 100.67	\$ 150.40 \$	200.23
Τ	40.0	26.0	11.0	\$ 3,971.20	\$ 3,451.60	\$ 1,828.51	\$ 9,251.31	\$ -	\$ 9,251.31	77.0	\$ 120.15	Foreman	\$ 99.28	\$ 132.75 \$	166.23
T	40.0	26.0	11.0	\$ 3,880.83	\$ 3,363.49	\$ 1,778.80	\$ 9,023.12	\$ -	\$ 9,023.12	77.0	\$ 117.18	Sub-Foreman	\$ 97.02	\$ 129.36 \$	161.71
T	40.0	26.0	11.0	\$ 3,718.16	\$ 3,204.88	\$ 1,689.33	\$ 8,612.37	\$ -	\$ 8,612.37	77.0	\$ 111.85	Surveyor	\$ 92.95	\$ 123.26 \$	153.58
T	40.0	26.0	11.0	\$ 3,718.16	\$ 3,204.88	\$ 1,689.33	\$ 8,612.37	\$ -	\$ 8,612.37	77.0	\$ 111.85	Lineman	\$ 92.95	\$ 123.26 \$	153.58
T	40.0	26.0	11.0	\$ 3,475.67	\$ 2,968.46	\$ 1,555.96	\$ 8,000.09	\$ -	\$ 8,000.09	77.0	\$ 103.90	Apprentice - 4th Year	\$ 86.89	\$ 114.17 \$	141.45
Τ	40.0	26.0	11.0	\$ 3,233.18	\$ 2,732.04	\$ 1,422.60	\$ 7,387.81	\$ -	\$ 7,387.81	77.0	\$ 95.95	Apprentice - 3rd Year	\$ 80.83	\$ 105.08 \$	129.33
T	40.0	26.0	11.0	\$ 2,990.70	\$ 2,495.61	\$ 1,289.23	\$ 6,775.54	\$ -	\$ 6,775.54	77.0	\$ 87.99	Apprentice - 2nd Year	\$ 74.77	\$ 95.99 \$	117.20
T	40.0	26.0	11.0	\$ 2,748.21	\$ 2,259.19	\$ 1,155.86	\$ 6,163.26	\$ -	\$ 6,163.26	77.0	\$ 80.04	Apprentice - 1st Year	\$ 68.71	\$ 86.89 \$	105.08
T	40.0	26.0	11.0	\$ 3,156.41	\$ 2,785.00	\$ 1,488.53	\$ 7,429.93	\$ -	\$ 7,429.93	7 7.0	\$ 96.49	Equipment Operator	\$ 78.91	\$ 107.12 \$	135.32
T	40.0	26.0	11.0	\$ 3,481.75	\$ 3,102.21	\$ 1,667.46	\$ 8,251.42	\$ -	\$ 8,251.42	77.0	\$ 107.16	Truck Driver / Picker Op.	\$ 87.04	\$ 119.32 \$	151.59
T	40.0	26.0	11.0	\$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,732.58	77.0	\$ 87.44	Labourer	\$ 72.01	\$ 96.76 \$	121.51
Ť	40.0	26.0	11.0	\$ 3,264.85	\$ 2,890.74	\$ 1,548.17	\$ 7,703.76	\$ -	\$ 7,7 03.76	77.0	\$ 100.05	Carpenter	\$ 81.62	\$ 111.18 \$	140.74
Ť	40.0	26.0	11.0	\$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,7 32.58	77.0	\$ 87.44	Telecom Foreman	\$ 72.01	\$ 96.76 \$	121.51
T	40.0	26.0	11.0	\$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,732.58	77.0	\$ 87.44	Telecom Cable Splicer	\$ 72.01	\$ 96.76 \$	121.51
_											_				

Equipment Rates		
General Highway Equi	pmen	
Pickup	\$	24.36
Crew Cab Truck	\$	29.20
Conductor Splicing Truck	\$	46.02
OPGW Splicing Truck	\$	93.60
Picker - 17 Ton	\$	136.27
Picker - 38 Ton	\$	180.25
40T RT Crane	\$	195.70
60T RT Crane	\$	247.20
80T RT Crane	\$	345.05
Digger - TelElect 5052	\$	89.40
T/A Gravel Truck	\$	68.13
T/A Rock Truck	\$	121.67
Texoma	\$	162.23
Watson 1010	\$	190.55
Watson 1100	\$	247.20
Watson 2500	\$	309.00
Soilmec SR65	\$	437.75
Tractor Trailer/Picker	\$	134.67
Tractor Trailer (Heavy)	\$	134.67
Self-Loader	\$	134.67
55' Bucket Truck	\$	81.11
Pole Trailer		
	\$	22.04
Rock Drill	\$	103.00
Contract Construction Ed		
200T All-Tr. crane	\$	418.72
Contract Welder	\$	144.20
Quad or Side by Side	\$	24.21
120' Gene Lift	\$	87.55
53' Tridem trailer	\$	11.85
Heavy Construction Equ	uipme	
Crawler Tractors 750 JD	\$	165.83
JD 310 Back Hoe	\$	68.13
JD 554 Loader	\$	69.27
JD 290 Track-hoe	\$	130.60
Skid-Steer Loader	\$	38.11
LGP Construction Equ	ipmer	nt
Nodwells - Picker up to 17 Ton	\$	170.36
Nodwells - Picker over 17 Ton	\$	228.25
Nodwell - Digger	\$	130.60
Trencher	\$	84.36
10T Tele-Handler	\$	53.00
LGP Texoma Nodwell	\$	162.23
LGP Highboy ROW Trailer	\$	32.45
Stringing Equipme		02.40
Reel Trailer	\$	72.10
Tensioner	\$	139.05
Puller		139.05
1 Drum Puller	\$	77.25
	\$	
Single Tensioner	\$	77.25
Single Traveller	\$	0.52
JD 350 LDC Excavator	\$	160.89
Compressor	\$	22.04
Grout Truck	\$	82.40
Press & Pump, Genset, Light pla		13.46
Press & Pump	\$	40.99
Water Pump	\$	40.99
Pilot Line Winder	\$	92.70
Wire Winder	\$	17.69
Spacer Buggy	\$	46.35
Travellers (ea)	\$	1.24





NALCOR 350 kV HVdc Line Construction front 2R5p.xlsx 10/01/2014 Page 1 of 1



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::A01	S1-A1 Initial Mobilization		Unit Cost:	\$ -	1 \$ -
	S1-A1 Initial Mobilization		\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
V::A02	S1-A2 Final Demobilization		Unit Cost:	\$ -	1 \$ -
	S1-A2 Final Demobilization		\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
V::A03	S1-A3 Accommodation Camp Installation		Unit Cost:	\$ 26,449,822.55	1 \$ 26,449,822.55
VAU3	S1-A3 Accommodation Camp Installation	2000	39		1 \$ 20,449,022.33
	Screened Crushed Rock (Tonne) Camp incidental Material		\$ 143,750.00	\$ 287,500.00	
	Contractor Fuel(I) Camp Hauling with pilot car	105000 1086	\$ 218.50	\$ 237,228.57	
	Room and Board (day)	101998	\$ 250.01 \$ -	\$ 25,500,743.98 \$ -	
	Total material Cost per Structure			\$ 26,449,822.55	
V::A04	S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day	4	Unit Cost: 71	\$ 250.01	12000 \$ 3,000,154.50
	Room and Board (day)	1	\$ 250.01 \$ -	\$ 250. 01	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		ų.	\$ 250.01	
V::A05	S1-A5 Meals for Company/Engineer visitors		Unit Cost:	\$ 41.68	1000 \$ 41,677.15
	S1-A5 Meals for Company/Engineer visitors Room and Board (day)	0.1667	\$ 250.01	\$ 41.68	
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 41.68	
V::A06	S1-A6 Parent Guarantee Article 7.4		Unit Cost:	\$ -	1 \$ -
	S1-A6 Parent Guarantee Article 7.4		124 \$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
V::A07	S1-A7 Letter Of Credit Article 7.6		Unit Cost:	\$ -	1 \$ -
	S1-A7 Letter Of Credit Article 7.6		134	\$ -	. •
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
v	Total material Cost per Structure	1		-	
V::A08	S1-A8 Performance Bonding Article 7.1 S1-A8 Performance Bonding Article 7.1		Unit Cost: 144	\$ -	1 \$ -
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	1
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure			\$ -]



		1		1 -	1		
	Description	QTY	Unit Price	Cost per item	Quantity	Total	
V::A09	S1-A9 Labour and Materials Bonding Article 7.2		Unit Cost:	\$ -		1 \$	_
VA00	S1-A9 Labour and Materials Bonding Article 7.2		158			. •	
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -	4		
	Total material Cost per Structure		Ф -	\$ -			
	Total material cost per off detaile	1					
V::B01	S1-B1 ROW Clearing		Unit Cost:	\$ 19,550.00		1292 \$	25,258,600.00
	S1-B1 ROW Clearing		174				
	ROW Clearing	1.00					
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 19,550.00			
V::B02	S1-B2 Removal of selected danger trees		Unit Cost:	\$ 210.00		500 \$	105,000.00
	S1-B2 Removal of selected danger trees	4.00	188				
	Removal of selected danger trees	1.00	\$ 210.00 \$ -	\$ 210.00 \$ -	-		
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 210.00			
VB02	C4 D2 Comply and Installation of Colyant C00 mm v 4 C mm think		Unit Coots	6 426.04		coc ¢	250 450 64
V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2		Unit Cost:	\$ 426.01		606 \$	258,159.64
	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	1.00					
	Supply and installation of Survey Coo min x 1.5 min allow diaminized type 2	1.00	\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	/		\$ -	\$ -			
	T. I		\$ -	\$ -	-		
	Total material Cost per Structure			\$ 426.01			
V::B04	S1-B4 Supply and Installation of Bridge - 3 m		Unit Cost:	\$ 32,700.00		71 \$	2,321,700.00
1504	S1-B4 Supply and Installation of Bridge - 3 m		216			v	2,021,700.00
	Supply and Installation of Bridge - 3 m	1.00					
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -	_		
	Total material Cost per Structure		Ф -	\$ 32,700.00	_		
	Total material dost per directure			32,700.00	I		
V::B05	S1-B5 Supply and Installation of Bridge - 4 m						
	S1-B5 Supply and Installation of Bridge - 4 m		Unit Cost:	\$ 43,600.00		0 \$	-
			231	,		0 \$	•
	Supply and Installation of Bridge - 4 m	1.00	231 \$ 43,600.00	\$ 43,600.00		0 \$	•
	Supply and Installation of Bridge - 4 m	1.00	231	\$ 43,600.00 \$ -		0 \$	•
	Supply and Installation of Bridge - 4 m	1.00	231 \$ 43,600.00 \$ - \$ -	\$ 43,600.00 \$ - \$ -		0 \$	
	Supply and Installation of Bridge - 4 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ -		0 \$	•
	Supply and Installation of Bridge - 4 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ -		0 \$	
	Supply and Installation of Bridge - 4 m Total material Cost per Structure	1.00	231 \$ 43,600.00 \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ -		0 \$	
	Total material Cost per Structure	1.00	231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ \$			•
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ - \$ - Unit Cost:	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 \$ - \$ 5 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 43,600.00			490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5- \$ 5- \$	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5			490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ Unit Cost: 275 \$ 54,500.00 \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 54,500.00 \$ 54,500.00 \$ -			490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ -			490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ -			490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ - \$ -			490,500.00
V::B06	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ -			490,500.00
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ 54,500.00		9 \$	
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 43,600.00			
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m S1-B7 Supply and Installation of Bridge - 6 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - Unit Cost: 292	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ 5 - \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ 65,400.00		9 \$	
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m		231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ 5 - \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ 65,400.00		9 \$	
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m S1-B7 Supply and Installation of Bridge - 6 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - Unit Cost: 292 \$ 65,400.00	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	
V::B06 V::B07	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m S1-B7 Supply and Installation of Bridge - 6 m	1.00	231 3 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m S1-B7 Supply and Installation of Bridge - 6 m	1.00	231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	490,500.00
	Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure S1-B7 Supply and Installation of Bridge - 6 m S1-B7 Supply and Installation of Bridge - 6 m	1.00	231 3 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ Unit Cost: 275 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	



	Description	QTY	Unit Price	Cost per item	Quantity	Total	
/::B08	S1-B8 Supply and Installation of Bridge - 7 m		Unit Cost:	\$ 76,300.00		2 \$	152,600.00
7000	S1-B8 Supply and Installation of Bridge - 7 m		309			2 φ	132,000.00
	Supply and Installation of Bridge - 7 m	1.00					
			\$ - \$ -	\$ - \$ -	_		
			\$ -	\$ -	-		
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 76,300.00			
/::B09	S1-B9 Supply and Installation of Bridge - 8 m		Unit Cost:	\$ 87,200.00		1 \$	87,200.00
	S1-B9 Supply and Installation of Bridge - 8 m		326				,
	Supply and Installation of Bridge - 8 m	1.00			-		
			\$ - \$ -	\$ - \$ -	-		
			\$ -	\$ -			
			\$ -	-			
	Total material Cost per Structure		\$ -	\$ - \$ 87,200.00			
	Total material cost per circlettie			φ 07,200.00			
::B10	S1-B10 Supply and Installation of Bridge - 10 m		Unit Cost:	\$ 109,000.00		3 \$	327,000.00
	S1-B10 Supply and Installation of Bridge - 10 m	4.00	343				
	Supply and Installation of Bridge - 10 m	1.00	\$ 109,000.00 \$ -	\$ 109,000.00 \$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure		Ψ -	\$ 109,000.00			
::B11	S1-B11 Supply and Installation of Bridge - 13 m		Unit Cost:	\$ 141,700.00		1 \$	141,700.00
	S1-B11 Supply and Installation of Bridge - 13 m Supply and Installation of Bridge - 13 m	1.00	360 \$ 141,700.00				
	eappr) and metallication of Bridge 10 m	1.00	\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -	-		
			\$ -	\$ -	-		
	Total material Cost per Structure			\$ 141,700.00			
::B12	S1-B12 Supply and Installation of Bridge - 14 m		Unit Cost:	\$ 152,60 0.00		0 \$	
	S1-B12 Supply and Installation of Bridge - 14 III		377			υş	-
	Supply and Installation of Bridge - 14 m	1.00					
			\$ -	\$ -			
			\$ - \$ -	\$ -	+		
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 152,600.00			
::B13	S1-B13 Supply and Installation of Bridge - 15 m		Unit Cost:	\$ 163,500.00		2 \$	327,000.00
	S1-B13 Supply and Installation of Bridge - 15 m		394				
	Supply and Installation of Bridge - 15 m	1.00	\$ 163,500.00 \$ -	\$ 163,500.00 \$ -	4		
			\$ -	\$ -	-		
			\$ -	\$ -]		
			\$ -	\$ -			
	Total material Cost per Structure		\$ -	\$ - \$ 163,500.00	1		
	Total material oost per otracture			φ 103,300.00	ı		
:B14	S1-B14 Supply and Installation of Bridge - 16 m		Unit Cost:	\$ 174,400.00		1 \$	174,400.00
	S1-B14 Supply and Installation of Bridge - 16 m Supply and Installation of Bridge - 16 m	1.00	\$ 174,400.00		1		
	Supply and installation of Bridge - 10 in	1.00	\$ 174,400.00	\$ 174,400.00	-		
			\$ -	\$ -			
			\$ -	\$ -	4		
			\$ - \$ -	\$ - \$ -	1		
	Total material Cost per Structure		Ψ	\$ 174,400.00			
D45	OLDER A LIVER OF						070 500 0
::B15	S1-B15 Supply and Installation of Bridge - 25 m S1-B15 Supply and Installation of Bridge - 25 m		Unit Cost: 425	\$ 272,500.00		1 \$	272,500.00
	Supply and Installation of Bridge - 25 m	1.00					
			\$ -	\$ -	4		
			\$ - \$ -	\$ - \$ -	4		
	1		Ψ -		4		
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			



	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::B16	S1-B16 Supply and Installation of Bridge - 35 m		Unit Cost:	\$ 381,500.00	1 \$	381,500.00
	S1-B16 Supply and Installation of Bridge - 35 m		439		, , , , , , , , , , , , , , , , , , ,	
	Supply and Installation of Bridge - 35 m	1.00	\$ 381,500.00 \$ -	\$ 381,500.00 \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 381,500.00		
V::B17	S1-B17 Supply and Installation of Bridge - 50 m		Unit Cost:	\$ 545,000.00	0 \$	-
	S1-B17 Supply and Installation of Bridge - 50 m Supply and Installation of Bridge - 50 m	1.00	453 \$ 545,000.00	\$ 545,000.00		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure		-	\$ 545,000.00		
V::B18	S1-B18 Supply and Installation of Bridge - 60 m		Unit Cost:	\$ 654,000.00	0 \$	
¥D10	S1-B18 Supply and Installation of Bridge - 60 m		467		0-\$	
	Supply and Installation of Bridge - 60 m	1.00	\$ 654,000.00 \$ -	\$ 654,000.00 \$ -		
			\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 654,000.00		
V::B19	S1-B19 Supply and Installation of Bridge - 65 m		Unit Cost:	\$ 708,500.00	0 \$	-
	S1-B19 Supply and Installation of Bridge - 65 m Supply and Installation of Bridge - 65 m	1.00	\$ 708,500.00	\$ 708,500.00		
			\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ - \$ -	\$ \$		
	Total material Cost per Structure		Ф -	\$ 708,500.00		
V::B20	S1-B20 Installation of Corduroy Road		Unit Cost:	\$ 139.45	3528 \$	491,976.07
1520	S1-B20 Installation of Corduroy Road		497		0020 \$	401,010.01
	Installation of Corduroy Road	1.00	\$ 139.45 \$ -	\$ 139.45 \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 139.45		
V::B21	S1-B21 Installation of Access Road - Access Class 3		Unit Cost: 511	\$ 80,700.00	173 \$	13,961,100.00
	S1-B21 Installation of Access Road - Access Class 3 Installation of Access Road - Access Class 3	1.00				
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure		-	\$ 80,700.00		
V::B22	S1-B22 Installation of Access Road - Access Trail		Unit Cost:	\$ 80,700.00	11 \$	887,700.00
	S1-B22 Installation of Access Road - Access Trail Installation of Access Road - Access Trail	1.00	\$ 80,700.00	\$ 80,700.00	T	
		1.00	\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 80,700.00		
	. State material Good per Gradual	1	<u>I</u>	00,700.00	ı	



	material outrimanes - by ottotale	077/	Lu va v	Ta	lo .::		
	Description	QTY	Unit Price	Cost per item	Quantity	Total	
V::B23	S1-B23 Installation of Access Road - Bypass Trail		Unit Cost:	\$ 80,700.00		18 \$	1,452,600.00
	S1-B23 Installation of Access Road - Bypass Trail Installation of Access Road - Bypass Trail	1.00	\$ 80,700.00		1		
	Installation of Access Read Bypase Irali	1.00	\$ -	\$ -]		
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 80,700.00	L		
V::B24	S1-B24 Installation of Access Road - Ice Bridge		Unit Cost:	\$ 7,200.00		64 \$	460,800.00
	S1-B24 Installation of Access Road - Ice Bridge		607				
	Installation of Access Road - Ice Bridge	1.00	\$ 7,200.00 \$ -	\$ 7,200.00 \$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 7,200.00			
V::B25	S1-B25 ROW Clearing		Unit Cost:	\$ 19,550.00		0 \$	
VD23	S1-B25 ROW Clearing		623			0 4	
	ROW Clearing	1.00					
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure		\$ -	\$ 19,550.00			
	Total material oost per outdotale			10,000.00			
V::B26	S1-B26 Removal of selected danger trees	4	Unit Cost:	\$ 210.00		0 \$	-
	S1-B26 Removal of selected danger trees Removal of selected danger trees	1.00	\$ 210.00				
	Tromoral or solested dailiger troop	1.00	\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ - \$ -	-		
			\$ -	\$ -			
	Total material Cost per Structure			\$ 210.00			
V::B27	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminize	ed type 2	Unit Cost:	\$ 426.01		0 \$	-
	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	1.00	\$ 426.01	\$ 426.01	1		
	Supply and installation of Curvert - 600 mm x 1.6 mm trick aluminized type 2	1.00	\$ 420.01	\$ -	1		
			\$ -	\$ -]		
		_	\$ - \$ -	\$ -	-		
			\$ -	\$ -			
	Total material Cost per Structure			\$ 426.01			
V::B28	S1-B28 Supply and Installation of Bridge - 3 m		Unit Cost:	\$ 32,700.00		0 \$	-
	S1-B28 Supply and Installation of Bridge - 3 m		698				
	Supply and Installation of Bridge - 3 m	1.00	\$ 32,700.00	\$ 32,700.00 \$ -	1		
			\$ -	\$ -]		
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -	+		
	Total material Cost per Structure		Ψ	\$ 32,700.00			
V::B29	S1-B29 Supply and Installation of Bridge - 4 m		Unit Cost:	\$ 43,600.00		0 \$	
V::D29	S1-B29 Supply and Installation of Bridge - 4 m		713			UŞ	-
	Supply and Installation of Bridge - 4 m	1.00					
			\$ - \$ -	\$ - \$ -	-		
			\$ -	\$ -	†		
			\$ -	\$ -]		
	Total material Cost per Structure		\$ -	\$ - \$ 43,600.00	1		
		1		,			
V::B30	S1-B30 Supply and Installation of Bridge - 5 m		Unit Cost: 728	\$ 54,500.00		0 \$	•
	S1-B30 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m	1.00					
			\$ -	\$ -	1		
			\$ -	\$ - \$ -	-		
			\$ -	\$ - \$ -	1		
			\$ -	\$ -]		
	Total material Cost per Structure			\$ 54,500.00			



	Description	QTY	Unit Price	Cost per item	Quantity Total
	Description	QII	Offic Price	Cost per item	Quantity
V::B31	S1-B31 Supply and Installation of Bridge - 6 m		Unit Cost:	\$ 65,400.00	0 \$ -
	S1-B31 Supply and Installation of Bridge - 6 m	1.00	743 \$ 65,400.00	\$ 65,400.00	1
	Supply and Installation of Bridge - 6 m	1.00	\$ 65,400.00	\$ 65,400.00	-
			\$ -	\$ -]
			\$ -	\$ -	-
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		7	\$ 65,400.00	
V D00	S1-B32 Supply and Installation of Bridge - 7 m		Unit Cost:	* 70,000,00	0 \$ -
V::B32	S1-B32 Supply and Installation of Bridge - 7 m S1-B32 Supply and Installation of Bridge - 7 m		774	\$ 76,300.00	- 0 \$
	Supply and Installation of Bridge - 7 m	1.00		\$ 76,300.00	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Continue Structure		\$ -	\$ - \$ 76.300.00	
	Total material Cost per Structure			\$ 76,300.00	
V::B33	S1-B33 Supply and Installation of Bridge - 8 m		Unit Cost:	\$ 87,200.00	0 \$ -
	S1-B33 Supply and Installation of Bridge - 8 m	4.00	792		
	Supply and Installation of Bridge - 8 m	1.00	\$ 87,200.00 \$ -	\$ 87,200.00 \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure			\$ 87,200.00	
V::B34	C4 D24 Comply and Installation of Daiden 40 m		Unit Cost:	\$ 109,000.00	0 \$ -
V::D34	S1-B34 Supply and Installation of Bridge - 10 m S1-B34 Supply and Installation of Bridge - 10 m		807		0 \$ -
	Supply and Installation of Bridge - 10 m	1.00		\$ 109,000.00	
			\$ -	\$ -	
			\$ -	\$ - \$ -	-
			\$ -	\$ -	
	Total material Continue Constitute		\$ -	\$ -	-
	Total material Cost per Structure			\$ 109,000.00	
V::B35	S1-B35 Supply and Installation of Bridge - 13 m		Unit Cost:	\$ 141,700.00	0 \$ -
	S1-B35 Supply and Installation of Bridge - 13 m	1.00	\$ 141,700.00		1
	Supply and Installation of Bridge - 13 m	1.00	\$ 141,700.00 \$ -	\$ 141,700.00 \$ -	-
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	-
	Total material Cost per Structure			\$ 141,700.00	
V::B36	S1-B36 Supply and Installation of Bridge - 14 m		Unit Cost:	\$ 152,600.00	0 \$ -
VD30	S1-B36 Supply and Installation of Bridge - 14 m		837		" "
	Supply and Installation of Bridge - 14 m	1.00		\$ 152,600.00	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	-
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 152,600.00	-
	Total material cost per structure			φ 132,000.00	
V::B37	S1-B37 Supply and Installation of Bridge - 15 m		Unit Cost:	\$ 163,500.00	0 \$ -
	S1-B37 Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 15 m	1.00	\$ 163,500.00	\$ 163,500.00	1
	eappy and mountain or pringer to the	1.00	\$ -	\$ -]
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
	Total material Cost per Structure			\$ 163,500.00	
V::B38	S1-B38 Supply and Installation of Bridge - 16 m		Unit Cost:	\$ 174,400.00	0 \$ -
	S1-B38 Supply and Installation of Bridge - 16 m		888		
	Supply and Installation of Bridge - 16 m	1.00		\$ 174,400.00	-
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -]
			\$ - \$ -	\$ -	-
	Total material Cost per Structure		φ -	\$ - \$ 174,400.00	- I
		1		117,700.00	ı



	Description	QTY	Unit Price	Cost per item	Quantity Total
		<u> </u>			-
V::B39	S1-B39 Supply and Installation of Bridge - 25 m S1-B39 Supply and Installation of Bridge - 25 m		Unit Cost: 904	\$ 272,500.00	0 \$ -
	Supply and Installation of Bridge - 25 m Supply and Installation of Bridge - 25 m	1.00			
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
	Total material Coot nos Structura		\$ -	\$ - \$ 272,500.00	
	Total material Cost per Structure			3 272,500.00	
V::B40	S1-B40 Supply and Installation of Bridge - 35 m		Unit Cost:	\$ 381,500.00	0 \$ -
	S1-B40 Supply and Installation of Bridge - 35 m Supply and Installation of Bridge - 35 m	1.00	920 \$ 381,500.00		
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 381.500.00	
	Total material Cost per Structure			\$ 381,500.00	
V::B41	S1-B41 Supply and Installation of Bridge - 50 m		Unit Cost:	\$ 545,000.00	0 \$ -
	S1-B41 Supply and Installation of Bridge - 50 m Supply and Installation of Bridge - 50 m	1.00	936 \$ 545,000.00		
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 545,000,00	
	Total material Cost per Structure			\$ 545,000.00	
V::B42	S1-B42 Supply and Installation of Bridge - 60 m	4	Unit Cost:	\$ 654,000.00	0 \$ -
	S1-B42 Supply and Installation of Bridge - 60 m Supply and Installation of Bridge - 60 m	1.00	952 \$ 654,000.00		
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 654,000.00	_
V::B43	S1-B43 Supply and Installation of Bridge - 65 m S1-B43 Supply and Installation of Bridge - 65 m		Unit Cost:	\$ 708,500.00	0 \$ -
	Supply and Installation of Bridge - 65 m	1.00	\$ 708,500.00	\$ 708,500.00	
			\$ -	\$ -	_
			\$ -	\$ -	-
			\$ - \$ -	\$ -	
	Total material Cost per Structure		-	\$ - \$ 708,500.00	-
V::B44	S1-B44 Installation of Corduroy Road S1-B44 Installation of Corduroy Road		Unit Cost: 984	\$ 139.45	0 \$ -
	Installation of Corduroy Road	1.00	\$ 139.45	\$ 139.45	
			\$ - \$ -	\$ - \$	_
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 139.45	-
V 545		•			
V::B45	S1-B45 Installation of Access Road - Access Class 3 S1-B45 Installation of Access Road - Access Class 3		Unit Cost: 1020	\$ 80,700.00	0 \$ -
	Installation of Access Road - Access Class 3	1.00	\$ 80,700.00	\$ 80,700.00	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	4
	Total material Cost per Structure		· -	\$ 80,700.00	1
V::B46	S1-B46 Installation of Access Road - Access Trail		Unit Cost:	\$ 80,700.00	0 \$ -
¥⊔40	S1-B46 Installation of Access Road - Access Trail		1036	3	
	Installation of Access Road - Access Trail	1.00			
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure			\$ 80,700.00	1
			·		



	Description	QTY	Unit Price	Cost per item	Quantity Total
	Description .	QII	Office Frice	Cost per item	quantity
V::B47	S1-B47 Installation of Access Road - Bypass Trail		Unit Cost:	\$ 80,700.00	0 \$ -
	S1-B47 Installation of Access Road - Bypass Trail Installation of Access Road - Bypass Trail	1.00	\$ 80,700.00		
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 80,700.00	
V::C01	S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and ted	chnical specifi		\$ 468.58	15500 \$ 7,263,053.52
	S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and technical specification Guy Anchor in soil (/m)	1	107 ⁻ \$ 431.08		
	Anchor Grout (I)		\$ 1.73		-
	Room and Board (day)	0.15			
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			\$ 468.58	
V::C02	S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and te	chnical specif	Unit Cost:	\$ 432.81	14500 \$ 6,275,676.25
	S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and technical specification	Manhour Row:	1088	3	
	Guy Anchor in rock (/m) Anchor Grout (I)		\$ 395.30 \$ 1.73		
	Room and Board (day)	0.15			
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
	Total material Cost per Structure		9	\$ 432.81	
V000 4	C4 C0 Tastian of Our Wise Archaeur to FFOLM as you desire desired		Deit Coot	004.05	4004 6 4 000 000 70
V::C02-1	S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and technical specification		Unit Cost:	\$ 994.35	1304 \$ 1,296,636.79
	Pull Test	1	\$ 994.35	\$ 994.35	
	Room and Board (day)	0	\$ 250.01 \$ -	\$ - \$ -	4
			\$ -	\$ -	-
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ - \$ 994.35	-
	Total material cost per diructure				
V::C02-2	S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and	Marshaus Davis	Unit Cost:	\$ 994.35	720 \$ 715,934.43
	S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification Pull Test		\$ 994.35		
	Room and Board (day)	0	\$ 250 .01	\$ -]
			\$ - \$ -	\$ -	-
			\$ -	\$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 994.35	
V::C03	S1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per			\$ 278.62	15 \$ 4,179.34
	S1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-421 Screened Crushed Rock (Tonne)	Manhour Row: 5.88	\$ 47.38		Т
	Screened Crushed Nock (Torrile)	3.00	\$ 47.50	\$ 270.02	-
			\$ -	\$ -	1
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 278.62	1
V::C04	S1-C4 Assembly and Installation of Foundation Types A2-1 (100 kPa) as per	Dwg 505573-4	Unit Cost:	\$ 468.98	3 \$ 1,406.93
	S1-C4 Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42E	Manhour Row:	1148	3	
	Screened Crushed Rock (Tonne)	9.90	\$ 47.38 \$ -	\$ 468.98 \$ -	-
			\$ -	\$ -	-
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		Ψ	\$ 468.98	-
V···COE	S1_C5 Accombly and Installation of Equipolation Types A2 4 (400 LPs) as any	Dwg 505572 4	Unit Cost	\$ 377.13	1 \$ 377.13
V::C05	S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42t		Unit Cost:		3//.13
	Screened Crushed Rock (Tonne)	7.96	\$ 47.38	\$ 377.13	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	<u> </u>
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ - \$ 377.13	-{
			i	, 577.13	



	Description	QTY	Unit Price	Cost	er item	Quantity	Total	
	Description	<u> QIT</u>	Unit Price	Cost	er item	auantity	lotai	
::C06	S1-C6 Assembly and Installation of Foundation Types A4-1 (100 kP			\$	468.98		6 \$	2,813.8
	S1-C6 Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 50557	73-4622-42[Manhour Row 9.90		1174 47.38 \$	460.00			
	Screened Crushed Rock (Tonne)	9.90	\$	- \$	468.98			
			\$	- \$	-			
			\$	- \$	-			
			\$	- \$ - \$	-			
	Total material Cost per Structure		Ф	- \$ \$	468.98			
	Total material cost por en actual		1					
:C07	S1-C7 Assembly and Installation of Foundation Types B1-1 (100 kF			\$	538.82		1 \$	538.8
	S1-C7 Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 5055			1187	500 00			
	Screened Crushed Rock (Tonne)	11.37	\$	47.38 \$ - \$	538.82			
			\$	- \$	-			
			\$	- \$	-			
			\$	- \$	-			
	Total material Cost per Structure		\$	- \$ \$	538.82			
	Total material Cost per Structure	<u> </u>	1	Ψ	330.02			
C08	S1-C8 Assembly and Installation of Foundation Types B2-1 (100 kF			\$	446.78		92 \$	41,103.
	S1-C8 Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 5055			1200				_
	Screened Crushed Rock (Tonne)	9.43	\$ \$	47.38 \$	446.78			
			\$	- \$				
		/	\$	- \$				
			\$	- \$	-			
			\$	- \$				
	Total material Cost per Structure		<u> </u>	\$	446.78			
C09	S1-C9 Assembly and Installation of Foundation Types A1-1A (250 kg	(Pa) as per Dwg 50557	Unit Cost:	\$	126.90		85 \$	10,786.
	S1-C9 Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505		<i>r</i> :	1213				,
	Screened Crushed Rock (Tonne)	2.68		47.38 \$	126.90			
			\$	- \$				
			\$	- \$	-			
			\$	- \$				
			\$	- \$	-			
	Total material Cost per Structure			\$	126.90			
C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250	kPa) as por Dwg 5055	7 Unit Cost	\$	246.96		16 \$	3,951.
010	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 50			1226	240.30		10 ψ	3,331.
	Screened Crushed Rock (Tonne)	5.21		47.38 \$	246.96			
			\$	- \$	=			
			\$ \$	- \$ - \$	-			
			\$	- \$	-			
			\$	- \$	-			
	Total material Cost per Structure			\$	246.96			
C11	S1-C11 Assembly and Installation of Foundation Types A3-1A (250	kPa) as par Dwg 5055	7 Unit Cost	\$	168.54		6 \$	1,011.
CII	S1-C11 Assembly and installation of Foundation Types A3-1A (250 kPa) as per Dwg 50			1239	100.34		υ φ	1,011
	Screened Crushed Rock (Tonne)	3.56		47.38 \$	168.54			
			\$	- \$	-			
			\$	- \$	-			
			\$	- \$ - \$	-			
			\$	- \$	-			
	Total material Cost per Structure			\$	168.54			
C12	S1-C12 Assembly and Installation of Foundation Types A4-1A (250			1050	246.96		32 \$	7,902
	S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 50: Screened Crushed Rock (Tonne)	5.21		1252 47.38 \$	246.96			
	Colodina Grashed North (Folling)	0.2	\$	- \$	-			
			\$	- \$	-			
			\$	- \$	-			
			\$	- \$ - \$	-			
			Ф	\$	246.96			
	Total material Cost per Structure			Ψ	70.00			
	Total material Cost per Structure		<u> </u>					
C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250			\$	264.42		3 \$	793
C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 50:	5573-4622-4 Manhour Row	r:	1265			3 \$	793
C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250): 	1265 47.38 \$	264.42		3 \$	793
C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 50:	5573-4622-4 Manhour Row	r:	1265			3 \$	793
C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 50:	5573-4622-4 Manhour Row	8 \$ \$	1265 47.38 \$ - \$	264.42		3 \$	793
C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 50:	5573-4622-4 Manhour Row	S S S S S S S S S S S S S S S S S S S	1265 47.38 \$ - \$ - \$ - \$ - \$	264.42 - - - -		3 \$	793
:C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 50:	5573-4622-4 Manhour Row	S	1265 47.38 \$ - \$ - \$ - \$	264.42 - - -		3 \$	793



V::C14 S1-C14 Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573 4022-Manthour Row: 1278 446.78 0 \$ Streemed Chushed Rook (Tonne) 9.43 4.788 \$ 3 - Screemed Chushed Rook (Tonne) 9.43 4.788 \$ - - Total material Cost per Structure 9.43 4.788 \$ - - Total material Cost per Structure 9.43 4.788 \$ - - St-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as per Dwg 505573. Unit Cost: \$ 471.41 28 \$ 13,199.40 St-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as per Dwg 505573-4022-4Manthour Row: 1291 \$ 471.41 28 \$ 13,199.40 Screemed Chushed Rook (Tonne) 9.55 4.738 \$ \$ 471.41 -<			T	T		I
Scient Clashed Rod. (Total) Scie		Description	QTY	Unit Price	Cost per item	Quantity Total
SCH Assembly and Installation of Foundation Types C2-1 (100 NPs) as part Dng 500573 Unit Cost 1.0	V::C14	S1-C14 Assembly and Installation of Foundation Types B2-1A (250 kPa) as	per Dwg 50557	Unit Cost:	\$ 446.7	8 0 \$ -
		S1-C14 Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-	Manhour Row	12		
Section Sect		Screened Crushed Rock (Tonne)	9.43			8
S						_
Total material Cost per Structure						
Total material Cost per Structure				\$ -		
V-C15 S1-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as per Dwg 505573 Unit Cost: \$ 471.41 20 \$ 153,199.40				\$ -		_
Science Scie		Total material Cost per Structure			\$ 446.7	8
Screened Charleton Robert Charleton Page Chi (100 KPg) as per Days (100 KPg) Charleton Robert Ch	V::C15	S1-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as po	er Dwg 505573	Unit Cost:	\$ 471.4	28 \$ 13,199.40
Secretaria Sec		S1-C15 Assembly and Installation of Foundation Types C1-1 (100 kPa) as per Dwg 505573-4622-4	Manhour Row	: 12		
		Screened Crushed Rock (Tonne)	9.95			1
St-C16 Assembly and Installation of Foundation Types C2-1 (100 kPs) as per Duy 505573- Unit Cost:						
Total material Cost per Structure						
Total material Cost per Structure						
V:C16 SI-C16 Assembly and Installation of Foundation Types C2-1 (100 kPa) as per Dwg 505573 Unit Cost: S 577.46 44 \$ 25,408.15		Total material Ocations Officialism		\$ -		
Screened Crushed Rock, (Tome) 1210 3 47.38 5 57.746		Total material Cost per Structure	1		\$ 471.4	
Screened Crushed Rock, (Tome) 1210 3 47.38 5 57.746	V::C16	S1-C16 Assembly and Installation of Foundation Types C2-1 (100 kPa) as po	er Dwg 505573	Unit Cost:	\$ 577.4	6 44 \$ 25,408.15
Since Sinc		S1-C16 Assembly and Installation of Foundation Types C2-1 (100 kPa) as per Dwg 505573-4622-4	Manhour Row	13		
Section Sect		Screened Crushed Rock (Tonne)	12.19			6
Signature Sign						
Total material Cost per Structure						
Total material Cost per Structure				\$ -		
V::C17 St-C17 Assembly and Installation of Foundation Types D1-1 (100 RPa) as per Dwg 505573. Unit Cost: \$ 0.24.60 32 \$ 19,887.16		T. I. I. I. I. I. I. I. I. I. I. I. I. I.		\$ -		
Si-Cir Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dug 505573-4622-4: Maintour Row: Si		Total material Cost per Structure	L.,		\$ 577.4	6
Screened Crushed Rock (Tonne)	V::C17	S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as po	er Dwg 505573	Unit Cost:	\$ 624.6	0 32 \$ 19,987.16
S		S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573-4622-4		13		
S		Screened Crushed Rock (Tonne)	13.18			0
S						-
Total material Cost per Structure						
Total material Cost per Structure				\$ -		
V::C18 S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573 Unit Cost: \$ 683.89 20 \$ 13,677.85				\$ -		
S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-4 Mathbour Row: S1-C21 S2 S2 S3 S4 S5 S4 S5 S5 S4 S5 S5		Total material Cost per Structure			\$ 624.6	0
Screened Crushed Rock (Tonne)	V::C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as po	er Dwg 505573	Unit Cost:	\$ 683.8	9 20 \$ 13,677.85
S						
S		Screened Crushed Rock (Tonne)	14.43			9
S						-
V::C19 S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: 1375						
Total material Cost per Structure						
V::C19 S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4022-4 Manhour Row: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4022-4 Manhour Row: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4022-4 Manhour Row: 1375 Screened Crushed Rock (Tonne) 15.97		T-1-1-110-1-01-1		\$ -		
St-C19 Assembly and Installation of Foundation Types Et-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: 1375 \$ 47.38 \$ 756.68 \$ - \$ - \$ - \$ \$ 5 - \$ \$		Total material Cost per Structure			\$ 683.8	9
Screened Crushed Rock (Tonne) 15.97 \$ 47.38 \$ 756.68	V::C19	S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as pe	er Dwg 505573	Unit Cost:	\$ 756.6	8 20 \$ 15,133.65
S						
S		Screened Crushed Rock (Tonne)	15.97			8
S				\$ -		-
S - S - S - Total material Cost per Structure S - S - Total material Cost per Structure S - S - Total material Cost per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical sp Unit Cost: S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specificatio Manhour Row: S - S - S - S - S -				\$ -		7
Total material Cost per Structure \$ 756.68				\$ -		
V::C20 S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical sp Unit Cost: \$ - 3 \$ - \$ - \$ \$ - \$ \$ - \$ - \$ \$ -				\$ -		
S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specificatio Manhour Row: S		Total material Cost per Structure	L		\$ 756.6	8
S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specificatio Manhour Row: S	V::C20	S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as p	er technical sp	Unit Cost:	\$ -	3 \$ -
S					88	·
S - S - S - S - S - S - S - S - S - S						_
S						_
V::C21 S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 & Unit Cost: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S1-C21 Downward, uplift, and lateral load test						╡
Total material Cost per Structure \$ - V::C21 S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: 1404 \$ - \$ - \$ - \$ - \$ -					\$ -	
V::C21 S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 a Unit Cost: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: S				\$ -		_
S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: 1404		I otal material Cost per Structure	<u> </u>	[\$ -	
S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: 1404	V::C21	S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3. or	D2-3, or E1-3	Unit Cost:	\$ -	3 \$
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Total material Cost per Structure \$ -				\$ -	\$ -	
		Total material Cost per Structure			-	



	Description	QTY	Unit Price	Cost per item	Quantity	Total	
/::C22	S1-C22 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI	Unit Cost:	\$ 1,909.69		109 \$	208,156.21
	S1-C22 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0						
	Small Q Concrete (m^3)	1.66		, , , , , , ,			
			\$ - \$ -	\$ - \$ -	-		
			\$ -	\$ - \$ -	+		
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure		· ·	\$ 1,909.69			
::C23	S1-C23 Assembly and Installation of Foundation Type A2-2 as per Dwg			\$ 2,798.41		20 \$	55,968.2
	S1-C23 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0						
	Small Q Concrete (m^3)	2.43	\$ 1,150.00	\$ 2,798.41 \$ -	-		
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 2,798.41			
•••	04.0044			4 000 00		40.0	40,000
:C24	S1-C24 Assembly and Installation of Foundation Type A3-2 as per Dwg			\$ 1,909.69		10 \$	19,096.9
	S1-C24 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3)	1.66				$\overline{}$	
	onal & condition (iii 5)	1.00	\$ -	\$ -			
			\$ -	\$ -			
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			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 1,909.69			
.COE	S4 C25 Assembly and Installation of Farmdation Type A4 2 on nor Dura	E0EE72 4622 42DI	Unit Coot	¢ 2.700.44	_	40 6	444.026
:C25	S1-C25 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C25 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0			\$ 2,798.41		40 \$	111,936.4
	Small Q Concrete (m ³)	2.43					
	omail & consists (iii o)	2.10	\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
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			-	-			
	Total material Cost per Structure						
	Total material cost per off detaile			\$ 2,798.41	1		
·C26		505573-4622-4201	Unit Cost:			3 \$	8 305 2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg			\$ 2,798.41		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0	0074 f Manhour Row	: 1489	\$ 2,798.41		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg		: 1489	\$ 2,798.41		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0	0074 f Manhour Row	t: 1489 3 \$ 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ -		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0	0074 f Manhour Row	148 1,150.00 1,150.00 1,150.00 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ -		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0	0074 f Manhour Row	1488	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ -		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3)	0074 f Manhour Row	148 1,150.00 1,150.00 1,150.00 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ -		3 \$	8,395.2
:C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0	0074 f Manhour Row	1488	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ -		3 \$	8,395.2
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3)	0074 f Manhour Row 2.43	1488 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ -		3 \$	
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure	0074 f Manhour Row 2.43 505573-4622-42DI	1488 1,150,000 1,150	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	0074 f Manhour Row 2.43 505573-4622-42DI	1488 1 1,150,000	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	0074 f Manhour Row 2.43 505573-4622-42DI	1488 1,150,000 1,150	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ 2,793.12			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	0074 f Manhour Row 2.43 505573-4622-42DI	1488 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ 2,798.41 \$ 2,798.41 \$ 2,793.12 \$ - \$ -			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	0074 f Manhour Row 2.43 505573-4622-42DI	: 1488 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	0074 f Manhour Row 2.43 505573-4622-42DI	1488 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S5-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly As	0074 f Manhour Row 2.43 505573-4622-42DI	: 1488 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	0074 f Manhour Row 2.43 505573-4622-42DI	1488 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S5-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S3-C27 Assembly As	505573-4622-42DI	1488 1,150.00	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			279,312.0
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI 505573-4622-42DI	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ 2,793.12 \$ - \$ 1,523.52		100 \$	279,312.
C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S5-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ - \$ 2,793.12 \$ - \$ - \$ 1,523.52 \$ 1,523.52		100 \$	279,312.
C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5056 f Manhour Row	Unit Cost: 150 150 150 150 150 150 150 15	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 1,523.52 \$ 1,523.52		100 \$	279,312.
C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5056 f Manhour Row	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 1,523.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		100 \$	279,312.
C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5056 f Manhour Row	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ 1,523.52 \$ 1,523.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		100 \$	279,312.
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5056 f Manhour Row	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ 1,523.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		100 \$	279,312.
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Concrete (m^3)	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5056 f Manhour Row	1488 1,150.00 1	\$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		100 \$	279,312.0
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5056 f Manhour Row	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ 1,523.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		100 \$	279,312.0
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Concrete (m^3)	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 5058 f Manhour Row 2.43	1488 1,150.00 1,150.0	\$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		100 \$	279,312.0 13,711.6
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI	Unit Cost: 1488 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,523.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	279,312.d
::C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI	Unit Cost: 1500 Unit Cost: 1500	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	279,312.d
:C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI	1488 1,150.00 1,150.0	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ 1,523.52 \$ 1,523.52 \$ - \$ - \$ - \$ - \$ 2,793.12		9 \$	279,312.d
::C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	279,312.d
::C27	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI	Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost: 150 Unit Cost:	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	279,312.0 13,711.6
::C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0 Small Q Concrete (m^3) Total material Cost per Structure S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg S1-C28 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg	505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI 505573-4622-42DI	1488 1,150.00 1	\$ 2,798.41 \$ 2,798.41 \$ - \$ - \$ - \$ - \$ 2,798.41 \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		9 \$	8,395.2 279,312.0 13,711.6



			1			
	Description	QTY	Unit Price	Cost per item	Quantity Total	<u> </u>
/::C30	S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg	505573-4622-42DI	Unit Cost:	\$ 2,073.68	1 \$	2,073.68
	S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-					
	Small Q Concrete (m^3)	1.80	, , , , , ,		4	
			\$ - \$ -	\$ - \$ -	4	
			\$ -	\$ - \$ -	-	
			\$ -	\$ -	1	
			\$ -	\$ -		
	Total material Cost per Structure			\$ 2,073.68		
/::C31	S1-C31 Assembly and Installation of Foundation Type A4-2 as per Dwg			\$ 2,541.85	4 \$	10,167.38
	S1-C31 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3)	2.21				-
	Small & Concrete (III-5)	2.2	\$ 1,150.00	\$ 2,341.65		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 2,541.85		
	S4 C22 Assembly and Installation of Foundation Type D4 2 on new Days	- E0EE72 4622 42DI	Linit Coot	\$ 2,708.48	4.6	2 702 4
::C32	S1-C32 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C32 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-				1.\$	2,708.4
	Small Q Concrete (m ³)	2.36				_
		2.00	\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	T. I		\$ -	\$ -		
	Total material Cost per Structure		_	\$ 2,708.48		
::C33	S1-C33 Assembly and Installation of Foundation Type A1-2 as per Dwg	1 505573-4622-42DI	Unit Cost:	\$ 1,523.52	81 \$	123,405.12
	S1-C33 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-					120,100111
	Small Q Concrete (m^3)	1.32				
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -	-	
	Total material Cost per Structure		\$ -	\$ - \$ 1,523.52	-	
	Total material oost per on deture			Ψ 1,525.52	<u> </u>	
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg	505 573-46 22-42DI	Unit Cost:	\$ 2,541.85	16 \$	40,669.5
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-		: 162			40,669.5
::C34			\$ 1,150.00	\$ 2,541.85		40,669.5
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-	0058 f Manhour Row	\$ 1,150.00 \$ -	\$ 2,541.85		40,669.5
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-	0058 f Manhour Row	: 1629 \$ 1,150.00 \$ - \$ -	\$ 2,541.85		40,669.5
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-	0058 f Manhour Row	\$ 1,150.00 \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ -		40,669.5
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-	0058 f Manhour Row	: 1629 \$ 1,150.00 \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ -		40,669.52
::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-	0058 f Manhour Row	\$ 1,150.00 \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ -		40,669.52
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure	0058 f Manhour Row 2.21	\$ 1,150.00 \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150,00 \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85		
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85	7 \$	
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68	7 \$	
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68	7 \$	
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68	7 \$	
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68	7 \$	
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 2 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	7 \$	
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 2 \$ 2,073.68 \$ - \$ - \$ -	7 \$	40,669.52 14,515.76
::C35	S1-C35 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD- Small Q Concrete (m^3) Total material Cost per Structure	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ 1,000 Unit Cost: : 1644 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ 2,073.68	7 \$	14,515.70
::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 2 2,073.68 \$ - \$ - \$ - \$ 2,073.68	7 \$	14,515.7
:C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: : 1642 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: : 1645 Unit Cost: : 1655	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ 2,073.68 \$ - \$ - \$ 2,073.68	7 \$	14,515.7
::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI	: 1625 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ 2,073.68 \$ - \$ 2,073.68	7 \$	14,515.7
:C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: : 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ 2,073.68 \$ - \$ - \$ 2,073.68	7 \$	14,515.7
:C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: : 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	7 \$	14,515.7
:C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	7 \$	14,515.7
::C35	S1-C35 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: : 1642 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85	7 \$	14,515.7
::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	7 \$	14,515.7(
::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 1.80 2.21	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	31 \$	14,515.7(78,797.2(
::C35	S1-C35 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row 2.21	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85	31 \$	14,515.7 78,797.2
::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 51-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3)	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 9 505573-4622-42DI 0058 f Manhour Row 2.21	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	31 \$	14,515.7 78,797.2
::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 51-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C3	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 1.80 2.21 3 505573-4622-42DI 0058 f Manhour Row 2.21 0058 f Manhour Row 0058 f Manhour Row 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	31 \$	14,515.7\(\)
:::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 51-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C3	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 1.80 2.21 3 505573-4622-42DI 0058 f Manhour Row 2.21 0058 f Manhour Row 0058 f Manhour Row 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	31 \$	14,515.7(78,797.2(
:::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-Small Q Concrete (m^3) Total material Cost per Structure S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 51-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-S1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C37 Assembly B1-C3	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 1.80 2.21 3 505573-4622-42DI 0058 f Manhour Row 2.21 0058 f Manhour Row 0058 f Manhour Row 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	31 \$	14,515.7(78,797.2(
7::C34 7::C35	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD- Total material Cost per Structure S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg	9 505573-4622-42DI 0058 f Manhour Row 1.80 1.80 1.80 2.21 3 505573-4622-42DI 0058 f Manhour Row 2.21 0058 f Manhour Row 0058 f Manhour Row 0058 f Manhour Row	: 1625 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,541.85 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,541.85 \$ 2,073.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	31 \$	



	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::C38	S1-C38 Assembly and Installation of Foundation Type B2-2 as per Dwg			\$ 2,793.12	88 \$	245,794.56
	S1-C38 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3)	2.43		\$ 2,793.12		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure			\$ 2,793.12		
/::C39	S1-C39 Assembly and Installation of Foundation Type C1-2 as per Dwg			\$ 2,793.12	32 \$	89,379.84
	S1-C39 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3)	026 fManhour Row: 2.43	1709 \$ 1,150.00			
	,		\$ -	\$ -		
			\$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		Ψ -	\$ 2,793.12		
::C40	S1-C40 Assembly and Installation of Foundation Type C2-2 as per Dwg			\$ 2,793.12	48 \$	134,069.76
	S1-C40 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3)	2.43	1726 \$ 1,150.00			
	ornali & controls (III o)	2.40	\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 2,793.12		
::C41	S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dwg	505573-4622-42DD	Unit Cost:	\$ 2,793.12	36 \$	100,552.32
	S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3)	026 f Manhour Row: 2.43				
	Small Q Concrete (m·s)	2.43	\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 2,793.12		
::C42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg	505 573-46 22-42DD	Unit Cost:	\$ 2,793.12	20 \$	55,862.40
	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-00	26 f Manhour Row:	1760)		,
	Small Q Concrete (m^3)	2.43	\$ 1,150.00 \$ -	\$ 2,793.12 \$ -		
			\$ - \$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 2,793.12		
::C43	S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg	505573-4622-42DD				
043	S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-00	JUJJ1 J"4022"42DD	Unit Coet:	¢ 2 702 12	16 ¢	44 680 03
		26 f Manhour Row:	1777		16 \$	44,689.92
	Small Q Concrete (m^3)		1777	\$ 2,793.12	16 \$	44,689.92
	Small Q Concrete (m^3)	26 f Manhour Row:	1777 \$ 1,150.00 \$ - \$ -	\$ 2,793.12 \$ - \$ -	16 \$	44,689.92
	Small Q Concrete (m^3)	26 f Manhour Row:	1777 \$ 1,150.00	\$ 2,793.12	16 \$	44,689.92
		26 f Manhour Row:	1777 \$ 1,150.00 \$ - \$ - \$ -	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ -	16 \$	44,689.92
	Total material Cost per Structure	226 f Manhour Row: 2.43	17777 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		
::C44		226 f Manhour Row: 2.43 2.43 505573-4622-42DD	1777 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost:	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,793.12	24 \$	
::C44	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg	226 f Manhour Row: 2.43 2.43 505573-4622-42DD	17777 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,150.00 Unit Cost: 1794	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12		
::C44	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42D0-00	226 f Manhour Row: 2.43 2.43 505573-4622-42DD 226 f Manhour Row:	17777 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,150.00	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12		
::C44	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42D0-00	226 f Manhour Row: 2.43 2.43 505573-4622-42DD 226 f Manhour Row:	17777 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: 1794 \$ 1,150.00 \$ \$ \$ \$	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ -		
::C44	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 51-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3)	226 f Manhour Row: 2.43 2.43 505573-4622-42DD 226 f Manhour Row:	17777 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$ 1,150.00	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		
	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 51-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3) Total material Cost per Structure	2.43 2.43 505573-4622-42DD 226 f Manhour Row: 2.43	1777 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: 1794 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		
	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 51-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 51-C45 Assembly Assembly 51-C45 Assembly	2.43 2.43 505573-4622-42DD 226 f Manhour Row: 2.43	1777 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ Unit Cost: 1794 \$ 1,150.00 \$ - \$ - \$ - \$ - Unit Cost:	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12		67,034.88
	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 51-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3) Total material Cost per Structure	2.43 2.43 505573-4622-42DD 226 f Manhour Row: 2.43	1777 \$\sqrt{1,150.00}\$ \$\sqrt{-}\$	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ 2,793.12	24 \$	67,034.88
	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation Of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly Asse	505573-4622-42DD 2026 f Manhour Row: 2.43 2.505573-4622-42DD 2.43 2.43 2.505573-4622-42DD 2026 f Manhour Row:	1777 \$ 1,150.00 \$ \$ \$ \$ \$ Unit Cost: 1794 \$ 1,150.00 \$ \$ \$ Unit Cost: 1811	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12	24 \$	67,034.88
/::C44 /::C45	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation Of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly Asse	505573-4622-42DD 2026 f Manhour Row: 2.43 2.505573-4622-42DD 2.43 2.43 2.505573-4622-42DD 2026 f Manhour Row:	1777 \$ 1,150.00 \$ \$ \$ \$ \$ \$ 1,150.00 \$ \$ Unit Cost: 1794 \$ 1,150.00 \$ \$ \$ Unit Cost: 1811 \$ 1,150.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$	67,034.88
	Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42DD-00 Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly and Installation Of Foundation Type C3-2 as per Dwg 505573-4622-42DD-00 S1-C45 Assembly Asse	505573-4622-42DD 2026 f Manhour Row: 2.43 2.505573-4622-42DD 2.43 2.43 2.505573-4622-42DD 2026 f Manhour Row:	1777 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ Unit Cost: 1794 \$ 1,150.00 \$ - \$ - \$ - Unit Cost: 1811 \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,793.12 \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24 \$	44,689.92 67,034.88 111,724.80



				•		
	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::C46	S1-C46 Assembly and Installation of Foundation Type D1-2 as per D	wg 505573-4622-42DI	Unit Cost:	\$ 2,793.12	28 \$	78,207.36
	S1-C46 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573-4622-420	DD-0026 f Manhour Row				
	Small Q Concrete (m^3)	2.43				
			\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		Ψ	\$ 2,793.12		
	Total material cost per off actual	l	l.			
V::C47	S1-C47 Assembly and Installation of Foundation Type D2-2 as per D	wg 505573-4622-42DI	Unit Cost:	\$ 2,793.12	20 \$	55,862.40
	S1-C47 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42D					
	Small Q Concrete (m^3)	2.43				
			\$ - \$ -	\$ - \$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 2,793.12		
/::C48	S1-C48 Assembly and Installation of Foundation Type E1-2 as per D			\$ 2,793.12	20 \$	55,862.40
	S1-C48 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42E					
	Small Q Concrete (m^3)	2.43				
	Non-Shrink grout (I)		\$ 9.20	\$ -	-	
			\$ -	\$ -	1	
			\$ -	\$ -	-	
			\$ -	\$ -		
	Total material Cost per Structure			\$ 2,793.12		
/::C49	S1-C49 Installation and Testing of 25M Mechanical Rock Anchor as p			\$ 23.48	9173 \$	215,413.78
	S1-C49 Installation and Testing of 25M Mechanical Rock Anchor as per design drawings a					
	Non-Shrink grout (I)	2.6	\$ 9.20	\$ 23.48		
			\$ -	\$ -	-	
			\$ -	\$ -	-	
			\$ -	\$ -	1	
			\$ -	\$ -		
	Total material Cost per Structure			\$ 23.48		
/::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as			\$ 30.52	276 \$	8,423.27
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings a				T	
	Non-Shrink grout (I)	3.3	\$ 9.20	\$ 30.52		
			\$ -	\$ -	_	
			\$ -	\$ -	_	
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 30.52		
	0.0541 4.83 4.5 4.0000 4.4 4.5 4.5		11.11.0		2.0	
/::C51	S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as p					
	S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings a	and technic Manhour Dave		\$ 37.28	0 \$	-
	Non-Shrink grout (I)		: 191	2		•
	Non-Shrink grout (I)		: 191	2 \$ 37.28		•
	Non-Shrink grout (I)		: 191 \$ 9.20	2 \$ 37.28		-
	Non-Shrink grout (I)		: 191 \$ 9.20	37.28 \$ - \$ - \$ -		-
	Non-Shrink grout (I)		: 191 \$ 9.20 \$ - \$ - \$ -	2		
			: 191 \$ 9.20 \$ - \$ - \$ -	2 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$		
	Non-Shrink grout (I) Total material Cost per Structure		: 191 \$ 9.20 \$ - \$ - \$ -	2		
luCF2	Total material Cost per Structure	4.1	191 \$ 9,20 \$ - \$ - \$ - \$ - \$ -	2 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ 37.28		
∕::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as part of the structure of	4.1	191 \$ 9.20 \$ - \$ - \$ - \$ - \$ -	2 \$ 37.28 \$ - \$ - \$ - \$ - \$ \$ - \$ \$ 37.28 \$ \$ 46.03		1,109,632.94
/::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a	per design drawings a	191 3 9.20 \$ - \$ - \$ - \$ - \$ - \$ 192	2 \$ 37.28 \$ - \$ 5	24108 \$	1,109,632.94
/:: C 52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as part of the structure of	per design drawings a	: 191 \$ 9.20 \$ - \$ - \$ - \$ - \$ 192 • Unit Cost: : 192 \$ 9.20	2 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ 5	24108 \$	1,109,632.9
/::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a	per design drawings a	191 3 9.20 \$ - \$ - \$ - \$ - \$ - \$ 1 Unit Cost: 192	2 37.28 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	24108 \$	1,109,632.9
∕::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a	per design drawings a	191 \$ 9.20 \$ - \$ - \$	2	24108 \$	1,109,632.94
∕::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a	per design drawings a	191 9 9 20 1 1 1 1 1 1 1 1 1	2 \$ 37.28 \$ - \$	24108 \$	1,109,632.94
/::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I)	per design drawings a	191 \$ 9.20 \$ - \$ - \$	2 \$ 37.28 \$ - \$ - \$ \$ -	24108 \$	1,109,632.94
/::C52	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a	per design drawings a	191 9 9 20 1 1 1 1 1 1 1 1 1	2 \$ 37.28 \$ - \$	24108 \$	1,109,632.94
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as gs1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure	per design drawings a and technik Manhour Row 5.0	191 9 9 20 1 1 1 1 1 1 1 1 1	2	24108 \$	
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing drawing	per design drawings and technik Manhour Row 5.0	191 3 9.20	2	24108 \$	· ·
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I)	per design drawings a and technik Manhour Row 5.0 per design drawings a	191 3 9.20 5 - 5 - 5 - 5 - 5 - 5 - 1 - 1 - 1 -	2 \$ 37.28 \$ - \$ - \$ \$ -	24108 \$	· ·
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing of 57M Mechanical Rock Anchor as per design drawings and Testing drawing	per design drawings a and technik Manhour Row 5.0 per design drawings a	191	2 \$ 37.28 \$ - \$ - \$ \$ -	24108 \$, i
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I)	per design drawings a and technik Manhour Row 5.0 per design drawings a	: 191 \$ 9.20 \$ - \$	2 \$ 37.28 \$ - \$ - \$ \$ - \$ \$ 37.28 \$ \$ 46.03 \$ \$ - \$ - \$ \$ -	24108 \$, i
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I)	per design drawings a and technik Manhour Row 5.0 per design drawings a	191 3 9.20	2 \$ 37.28 \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	24108 \$	
	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I)	per design drawings a and technik Manhour Row 5.0 per design drawings a	: 191 \$ 9,20 \$ - \$	2	24108 \$	·
V::C52 V::C53	Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings a Non-Shrink grout (I)	per design drawings a and technik Manhour Row 5.0 per design drawings a	191 3 9.20	2 \$ 37.28 \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	24108 \$	1,109,632.94 9,383.10



	5	1				Ia Ia	
	Description	QTY	Unit Price	l	Cost per item	Quantity Total	
V::C54	S1-C54 Installation and Testing of 64M Mechanical Rock Anchor as per de				\$ 76.09	9 \$	684.78
	S1-C54 Installation and Testing of 64M Mechanical Rock Anchor as per design drawings and tech			1961			
	Non-Shrink grout (I)	8.3	\$	9.20	\$ 76.09 \$ -	_	
			\$	-	\$ -	-	
			\$	-	\$ -		
			\$	-	\$ -		
	Total material Continue Otmorton		\$	-	\$ -	_	
	Total material Cost per Structure				\$ 76.09		
V::C55	S1-C55 Design, Assembly and Installation of Foundation Type A1-3 as per	Dwg 505573-46	Unit Cost:		\$ 44,266.30	3 \$	132,798.91
	S1-C55 Design, Assembly and Installation of Foundation Type A1-3 as per Dwg 505573-4622-420	on Manhour Row					
	NorthStar Price for Steel Piling Caps C55		\$ 40,51		\$ 40,516.11	-	
	Room and Board (day)	15	\$ 25	0.01	\$ 3,750.19 \$ -		
			\$	-	\$ -		
			\$	-	\$ -		
			\$	-	\$ -	-	
	Total material Cost per Structure				\$ 44,266.30		
V::C56	S1-C56 Design, Assembly and Installation of Foundation Type A2-3 as per	Dwa 505573-46	Unit Cost:		\$ 44,266.30	1 \$	44,266.30
	S1-C56 Design, Assembly and Installation of Foundation Type A2-3 as per Dwg 505573-4622-420						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	NorthStar Price for Steel Piling Caps C56		\$ 40,51		\$ 40,516.11		
	Room and Board (day)	15		0.01	\$ 3,750.19 \$ -	-	
			\$	-	\$ - \$ -	-	
			\$	-	\$ -		
			\$	-	\$ -		
	Total material Cost per Structure			_4	\$ 44,266.30		
V::C57	S1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per	Dwg 505573-46	Unit Cost		\$ 44,266.30	0 \$	_
VC31	S1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per S1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per Dwg 505573-4622-42[U	44,200.30	0 \$	
	NorthStar Price for Steel Piling Caps C57		\$ 40,51	6.11	\$ 40,516.11		
	Room and Board (day)	15		0.01	\$ 3,750.19		
			\$		\$ - \$ -	-	
			\$	-	\$ -	-	
				-	\$ -		
	Total material Cost per Structure				\$ 44,266.30	1	
V::C58	S1-C58 Design, Assembly and Installation of Foundation Type A4-3 as per	Dwg 505573-46	: Unit Cost:		\$ 44,266.30	1 \$	44,266.30
VC30	S1-C56 Design, Assembly and Installation of Foundation Type A4-3 as per S1-C58 Design, Assembly and Installation of Foundation Type A4-3 as per Dwg 505573-4622-42[44,200.30	Ιψ	44,200.30
	NorthStar Price for Steel Piling Caps C58	1	\$ 40,51		\$ 40,516.11		
	Room and Board (day)	15		0.01	\$ 3,750.19		
			\$ \$	-	\$ - \$ -	_	
				-	\$ - \$ -		
				-			
			\$	-	\$ -		
	Total material Cost per Structure		\$	-	•	_	
VCE0		Dwg 505572 46	\$	-	\$ - \$ 44,266.30		
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per		\$ Unit Cost:	-	\$ -		
V::C59		Manhour Row	\$ Unit Cost:		\$ - \$ 44,266.30		-
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421	Manhour Row	\$ Unit Cost: : : 40,51	6.11	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19	0 \$	-
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42L NorthStar Price for Steel Piling Caps C59	Manhour Row	\$ Unit Cost: \$ 40,51 \$ 25	6.11	\$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ -	0 \$	-
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42L NorthStar Price for Steel Piling Caps C59	Manhour Row	\$ Unit Cost: \$ 40,51 \$ 25	16.11 50.01 -	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ -	0 \$	-
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42L NorthStar Price for Steel Piling Caps C59	Manhour Row	\$ Unit Cost: \$ 40,51 \$ 25	6.11	\$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ -	0 \$	-
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42L NorthStar Price for Steel Piling Caps C59	Manhour Row	S Unit Cost: \$ 40,51 \$ 25 \$ \$	6.11 50.01	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ -	0 \$	-
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure	DEManhour Row 1 15	Unit Cost: \$ 40,51 \$ 25 \$ \$	60.01	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 44,266.30	0 \$	-
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per	DManhour Row 1 15 15 15 Dwg 505573-46	Unit Cost: 3 40,51 \$ 25 \$ \$ \$ Unit Cost:	60.01	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ -	0 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure	Dwg 505573-46	5 Unit Cost: 3 40,51 \$ 25 \$ \$ \$ Unit Cost:	6.11 50.01	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 44,266.30	0 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-420 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-420	Dwg 505573-46 DD Manhour Row	5 Unit Cost: \$ 40,51 \$ 25 \$ \$ \$ Unit Cost: \$ 188,4	6.11 50.01 - - - - - - - - 256.25	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 44,266.30 \$ 208,457.28 \$ 188,456.25 \$ 20,001.03	4 \$	- 833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C60	Dwg 505573-46 DD Manhour Row	5 Unit Cost: 5 40,51 \$ 25 \$ \$ \$ \$ \$ Unit Cost: 5 188,4	6.11 50.01 - - - - - - 156.25	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03	4 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C60	Dwg 505573-46 DD Manhour Row	Unit Cost: 3 40,51 \$ 25 \$ \$ \$ Unit Cost: \$ 188,4	66.11 50.01 - - - - - 856.25	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ -	4 \$	- 833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C60	Dwg 505573-46 DD Manhour Row	5 Unit Cost: 5 40,51 \$ 25 \$ \$ \$ \$ \$ Unit Cost: 5 188,4	6.11 50.01 - - - - - - 156.25	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ -	4 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C60	Dwg 505573-46 DD Manhour Row	S Unit Cost: S 40,51 S 25 S 5 S 5 S 6 Unit Cost: S 188,4 S 25 S 5 S 5 S 7 S 7 S 8 S 8 S 9 S 9 S 9 S 9 S 9 S 9	856.25 250.01	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ -	4 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day)	Dwg 505573-46 DD Manhour Row	5 Unit Cost: \$ 40,51 \$ 25 \$ \$ \$ Unit Cost: \$ 188,4 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C60	Dwg 505573-46 DD Manhour Row	5 Unit Cost: 5 40,51 \$ 25 \$ \$ \$ \$ \$ Unit Cost: \$ 188.4 \$ 2 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5		\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ 44,266.30 \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$	833,829.12
V::C60	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-421 NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure	Dwg 505573-46 Db Manhour Row 1 15 Dwg 505573-46 Db Manhour Row 1 80	5 Unit Cost: \$ 40,51 \$ 25 \$ \$ \$ Unit Cost: \$ 188,4 \$ 2 \$ 3 \$ 3 \$ 3 \$ 3 \$ 3 \$ 40,51	6.11 50.01 	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ 44,266.30 \$ 208,457.28	4 \$	833,829.12
	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day)	Dwg 505573-46 Manhour Row 1 Dwg 505573-46 Manhour Row Dwg 505573-46	5 Unit Cost: 5 40,51 \$ 25 \$ \$ \$ 40,51 \$ 25 \$ \$ \$ \$ \$ Unit Cost: \$ 188,4 \$ 2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6.11 50.01 	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$	833,829.12
V::C60	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C61	Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46	5 Unit Cost: 5 40,51 \$ 25 \$ \$ \$ Unit Cost: \$ 188,45	66.11 	\$ 44,266.30 \$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ \$ \$ \$ 44,266.30 \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ \$ \$ \$ \$ \$ \$ \$ -	0 \$	833,829.12
V::C60	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42t	Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46	S Unit Cost: \$ 40,51 \$ 25 \$	66.11 	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ \$ \$ 44,266.30 \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ \$ \$ \$ \$ 188,456.25 \$ 208,457.28 \$ 188,456.25 \$ 208,457.28	0 \$	833,829.12
V::C60	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C61	Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46	5 Unit Cost: \$ 40,51 \$ 25 \$ \$ \$ Unit Cost: \$ 188,45 \$ 188,45 \$ 25 \$ 25		\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ 44,266.30 \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ 208,457.28 \$ 208,457.28 \$ 208,457.28	0 \$	833,829.12
V::C60	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C61	Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46	S Unit Cost: \$ 40,51 \$ 25 \$	66.11 	\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ \$ \$ 44,266.30 \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ \$ \$ \$ \$ 188,456.25 \$ 208,457.28 \$ 188,456.25 \$ 208,457.28	0 \$	833,829.12
V::C60	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C59 Room and Board (day) Total material Cost per Structure S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C60 Room and Board (day) Total material Cost per Structure S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42t NorthStar Price for Steel Piling Caps C61	Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46 Dwg 505573-46	5 Unit Cost: 5 40,51 \$ 25 \$ \$ \$ 188.45 \$ 25 \$ 188,45 \$ 25 \$ 188,45		\$ 44,266.30 \$ 44,266.30 \$ 40,516.11 \$ 3,750.19 \$ - \$ - \$ - \$ - \$ - \$ 208,457.28 \$ 188,456.25 \$ 20,001.03 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$	833,829.12



	Description	QTY	Unit Price	Cost pe	or itom	Quantity	otal
	Description	Q I I	Offic Price	Cost pe	er item	Quantity	otai
V::C62	S1-C62 Design, Assembly and Installation of Foundation Type C2-3 as per I S1-C62 Design, Assembly and Installation of Foundation Type C2-3 as per Dwg 505573-4622-42DI			\$	208,457.28	4 \$	833,829.12
	NorthStar Price for Steel Piling Caps C62		\$ 188,456.25	\$	188,456.25		
	Room and Board (day)	80		\$	20,001.03		
			\$ - \$ -	\$	-	1	
			\$ -	\$	-		
	Total material Contract Characters		\$ -	\$ \$	-		
	Total material Cost per Structure			l Þ	208,457.28		
V::C63	S1-C63 Design, Assembly and Installation of Foundation Type D1-3 per Dwg			\$	208,457.28	0 \$	-
	S1-C63 Design, Assembly and Installation of Foundation Type D1-3 per Dwg 505573-4622-42DD-0 NorthStar Price for Steel Piling Caps C63		\$ 188,456.25	\$	188,456.25		
	Room and Board (day)	80		\$	20,001.03		
			\$ -	\$	-		
			\$ - \$ -	\$	-		
			\$ -	\$	-		
	Total material Cost per Structure			\$	208,457.28		
V::C64	S1-C64 Design, Assembly and Installation of Foundation Type D2-3 as per D	Dwg 505573-46	Unit Cost:	\$	208,457.28	0 \$	- /
	S1-C64 Design, Assembly and Installation of Foundation Type D2-3 as per Dwg 505573-4622-42DD						
	NorthStar Price for Steel Piling Caps C64 Room and Board (day)	1 80	\$ 188,456.25 \$ 250.01	\$	188,456.25 20,001.03		
	Toolin and Dourd (vdy)	- 30	\$ -	\$	20,001.03		
			\$ -	\$	-		
			\$ -	\$			
	Total material Cost per Structure			\$	208,457.28		
V::C65	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per D	lwa 505573 -46	Unit Cost:	\$	208,457.28	4 \$	833,829.12
VC03	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per Dwg 505573-4622-42DE			ų.	200,437.20	4 9	033,029.12
	NorthStar Price for Steel Piling Caps C65		\$ 188,456.25		188,456.25		
	Room and Board (day)	80	\$ 250.01 \$ -	\$	20,001.03	-	
			\$ -	\$			
			\$ - \$ -	\$	-	_	
	Total material Cost per Structure		Ф -	\$	208,457.28		
V::C66	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as pe S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings a			\$	468.58	720 \$	337,380.55
	Guy Anchor in soil (/m)	1	\$ 431.08	\$	431.08		
	Room and Board (day)	0.15	\$ 250 .01	\$	37.50		
			\$ -	\$	-	-	
			\$ -	\$	-		
	Total material Cost per Structure		\$ -	\$ \$	468.58	-	
				ĮΨ	400.50	l	
V::C67	S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT	Manhaur Daw	Unit Cost:	\$	580.69	2040 \$	1,184,606.25
	S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT NorthStar Price for piles by LM	Manhour Row:	\$ 555.69	\$	555.69		
	Room and Board (day)	0.1		\$	25.00		
			\$ -	\$	-		
			\$ -	\$	-		
	Total material Cost per Structure		\$ -	\$	-		
	Total material Cost per Structure			\$	580.69		
V::C68	S1-C68 Supply and Installation of Cribs for excavation protection of tower t			\$	254.37	6700 \$	1,704,268.95
	S1-C68 Supply and Installation of Cribs for excavation protection of tower types A1, A2, A3, A4, B1, Bolt a Plate Culvert (m^2)		\$ 254.37	\$	254.37		1
	Bolt d'I late Guivoit (III 2)		\$ -	\$	-		
			\$ - \$ -	\$	-	-	
			\$ -	\$			
			\$ -	\$	-]	
	Total material Cost per Structure			\$	254.37		
V::C69	S1-C69 Transportation of native backfill	Monhaux D-	Unit Cost:	\$	•	1000 \$	-
	S1-C69 Transportation of native backfill	Manhour Row:	\$ -	\$			
			\$ -	\$	-]	
			\$ - \$ -	\$	-	-	
			\$ -	\$	-	1	
			\$ -	\$	-		
			\$ - \$ -	\$	-	1	
	Total material Cost per Structure			\$	•	1	
						·	



	Waterial Gurillianes - by Gudeluic					
	Description	QTY	Unit Price	Cost per item	Quantity To	otal
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/	nrocessed ma	Unit Cost	\$ 106.61	14000 \$	1,492,470.00
V070	S1-C70 Supply and transportation of approved fill from an alternate source/processed material/road			Ψ 100.01	14000 ψ	1,432,410.00
	Screened Crushed Rock (Tonne)	2.25		\$ 106.61		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 106.61	_	
V::C71	S1-C71 Rock blasting/preparation		Unit Cost:	\$ -	1000 \$	_
VO/ 1	S1-C71 Rock blasting/preparation		Oliit Gost.	Ψ -	1000 ψ	-
			\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -	-	
			\$ -	\$ -		
	Total material Cost per Structure		//	\$ -		
V::D01	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0" as per dv	va 505573-46°	Unit Cost	\$	0 \$	
١٠٠٠ ١	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0" as per dwg. 505573-4622-43DD-		OIII GOSt.	\$	0 \$	
	, , , , , , , , , , , , , , , , , , , ,		\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -/	\$ -		
	Total material Cost per Structure			\$ -		
V::D02	C4 D2 Accombly and Fraction of Companion Towar Type #A4 + 4 5# on nov	dua EOEE72	Unit Cont	\$ -	0.6	
V::D02	S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per dwg. 505573-4622-43D		Unit Cost:	a -	0 \$	•
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ -	-	
		/	\$ -	\$ -	1	
	Total material Cost per Structure					
V::D03	S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3" as per d	wa. 505573-46	Unit Cost:	\$ -	0 \$	_
	S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3" as per dwg. 505573-4622-43DD)	*	¥	
			\$ -	\$ -		
			\$ -	\$ -	1	
			\$ - \$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ -		
V::D04	S1-D4 Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per	dwg. 505573-4	Unit Cost:	\$ -	0 \$	-
	S1-D4 Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per dwg. 505573-4622-43D					
			\$ -	\$ -	4	
			\$ -	\$ -	-	
			\$ -	\$ -	1	
			\$ -	\$ -]	
	Tariffe de la Company		\$ -	\$ -	4	
	Total material Cost per Structure			\$ -		
V::D05	S1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per d	wg. 505573-46	Unit Cost:	\$ -	67 \$	
	S1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD					
			\$ -	\$ -	4	
			\$ - \$ -	\$ - \$ -	1	
			\$ -	\$ -	1	
			\$ -	\$ -]	
	Tatal material Cost and Churching		\$ -	\$ -	4	
	Total material Cost per Structure		1	-	1	
V::D06	S1-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per	dwg. 505573-4	Unit Cost:	\$ -	26 \$	-
	S1-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per dwg. 505573-4622-43D	-				
			\$ -	\$ -	4	
			\$ - \$ -	\$ - \$ -	1	
			\$ -	\$ -	1	
			\$ -	\$ -		
	Total material Coat new Structure		\$ -	\$ -	4	
	Total material Cost per Structure		l	-	1	



	Description	QTY	Unit Price	Cost per item	Quantity Total
	Description	W11	Onitifice	Cost per item	accountry 10tal
V::D07	S1-D7 Assembly and Erection of Suspension Tower Type "A1 + 9" as per d		Unit Cost:	-	27 \$ -
	S1-D7 Assembly and Erection of Suspension Tower Type "A1 + 9" as per dwg. 505573-4622-43DD	-0042	\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D08	S1-D8 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as pe	r dwa. 505573	· Unit Cost:	\$ -	28 \$ -
	S1-D8 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as per dwg. 505573-4622-43				
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
	Total material Cost per Structure		<u> </u>	\$ -	
\/ D00	C4 D0 Assembly and Fraction of Community Towns Towns WA4 (40), as well	-l 505570 4	. II-it 0t	•	20.0
V::D09	S1-D9 Assembly and Erection of Suspension Tower Type "A1 + 12" as per S1-D9 Assembly and Erection of Suspension Tower Type "A1 + 12" as per dwg. 505573-4622-43D		Unit Cost:	\$ -	33 \$ -
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	-
	Total material Cost per Structure			1 3 -	
V::D10	S1-D10 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as $\ensuremath{\text{p}}$		Unit Cost:	\$ -	2 <mark>5</mark> \$ -
	S1-D10 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as per dwg. 505573-4622-4	3DD-0042	-	\$ -	
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	Total material Cost per Structure			-	
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per	r dwg. 505573-	· Unit Cost:	\$ -	26 \$ -
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-431				<u></u>
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	Total material Cost per Structure			\$ -	
VD42	C4 D42 Assembly and Exection of Supremaion Towar Type #44 + 46 Ell on the	- dua 50557	Linit Cont.	\$ -	28 \$ -
V::D12	S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as p S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4		. Unit Cost:	-	20 \$ -
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	Total material Cost per Structure		\$ -	\$ - \$ -	-
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V::D13	S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per		Unit Cost:	-	42 \$ -
	S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-431	JD-0042	\$ -	\$ -	
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V::D14	S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per of		Unit Cost:	\$ -	0 \$ -
	S1-D14 Assembly and Erection of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-43DI	D-0044	Φ.	Φ.	
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	Total material Cost per Structure			\$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
	Description	QII	Office Price	Cost per item	quantity
V::D15	S1-D15 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as pe S1-D15 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as per dwg. 505573-4622-43			\$ -	0 \$ -
	51-D15 Assembly and Erection of Suspension Fower Type A2 + 1.5 as per dwg. 505573-4622-43	IVIAIIIIOUI NOW	\$ -	\$ -	
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	Total material Cost per Structure			\$ -	
V::D16	S1-D16 Assembly and Erection of Suspension Tower Type "A2 + 3" as per			\$ -	0 \$ -
	S1-D16 Assembly and Erection of Suspension Tower Type "A2 + 3" as per dwg. 505573-4622-43DI	Manhour Row			
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			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D17	S1-D17 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as pe	r dwa. 505573	Unit Cost:	\$ -	0 \$ -
•	S1-D17 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as per dwg. 505573-4622-43				
			\$ - \$ -	\$ -	
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			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D18	S1-D18 Assembly and Erection of Suspension Tower Type "A2 + 6" as per of	dwa 505572-4	Unit Cost:	\$ -	6 \$ -
VD10	S1-D18 Assembly and Erection of Suspension Tower Type "A2 + 6" as per dwg. 505573-4622-43DI				0 0
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	Total material Cost per Structure		\$ -	\$ - \$ -	1
V::D19	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as pe S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-43			\$	6 \$ -
	7,		\$ -	\$ -	
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	Total material Cost per Structure		\$ -	\$ - \$ -	4
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V::D20	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per of S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43DI			\$ -	11 \$ -
	G1-D20 (1990) and E1600011 of Gusperhalori Tower Type (A2 ± 9) as per uwg. 5050/3-4022-4301	Mannoul NOW.	-	\$ -	
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	Total material Cost per Structure		\$ -	\$ - \$ -	-
	Total material Cost per Structure			-	I.
V::D21	S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as p	•		\$ -	5 \$ -
	S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-4	Mannour Row	\$ -	\$ -	
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	Total material Cost per Structure		l	-	1
V::D22	S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 12" as per			\$ -	12 \$ -
	S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 12" as per dwg. 505573-4622-430	Manhour Row	\$ -	-	1
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	Total material Cost per Structure			\$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
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V::D23	S1-D23 Assembly and Erection of Suspension Tower Type "A2 + 13.5" as p S1-D23 Assembly and Erection of Suspension Tower Type "A2 + 13.5" as per dwg. 505573-4622-4			\$ -	4 \$ -
	51-bz3 Assembly and Erection of Suspension Tower Type Az + 13.5 as per dwg. 505573-46zz-4	Mailloui Row.	\$ -	\$ -	
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	Total material Cost per Structure			\$ -	
V::D24	S1-D24 Assembly and Erection of Suspension Tower Type "A2 + 15" as per	r dwa. 505573-	Unit Cost:	\$ -	4 \$ -
	S1-D24 Assembly and Erection of Suspension Tower Type "A2 + 15" as per dwg. 505573-4622-431			•	
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	Total material Cost per Structure		\$ -	\$ -	
	Total material cost per Structure		L		
V::D25	S1-D25 Assembly and Erection of Suspension Tower Type "A2 + 16.5" as p			\$	6 \$ -
	S1-D25 Assembly and Erection of Suspension Tower Type "A2 + 16.5" as per dwg. 505573-4622-4	iviannour Row:	-	\$ -	
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	Total material Cost per Structure			\$ -	
V::D26	S1-D26 Assembly and Erection of Suspension Tower Type "A2 + 18" as per	r dwa 505 57 2-	Unit Cost:	\$ -	1 \$ -
VD20	S1-D26 Assembly and Erection of Suspension Tower Type "A2 + 18" as per dwg. 505573-4622-438				1 \$
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	Total material Cost per Structure			-	
V::D27	S1-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as po	er dwg. 505573	Unit Cost:	\$ -	2 \$ -
	S1-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-4				
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	Total material Cost per Structure		\$ -	\$ - \$ -	4
	Total material cost per ou detaile	L			
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per of			\$ -	0 \$ -
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43D0	Manhour Row:	\$ -	\$ -	
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	Total material Cost per Structure			\$ -	<u> </u>
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D29	S1-D29 Assembly and Erection of Suspension Tower Type "A3 + 1.5" as pe	er dwg. 505573	Unit Cost:	\$ -	1 \$ -
	S1-D29 Assembly and Erection of Suspension Tower Type "A3 + 1.5" as per dwg. 505573-4622-43				·
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	Total material Cost per Structure			\$ -	
V::D30	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per	dwa 505573-4	Unit Cost	\$ -	2 \$ -
VD30	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-43D			Ψ -	2 4
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	Total material Cost per Structure			\$ -	
V::D31	S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as pe			\$ -	2 \$ -
	S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per dwg. 505573-4622-45	wannour Kow	\$ -	\$ -	
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	Total metarial Coat new Structure		Ψ -	7	
	Total material Cost per Structure		Ψ	\$ -	1
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost:		3 \$ -
V::D32			Unit Cost:	\$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost:	\$ - \$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost:	\$ - \$ - \$ -	3 \$ -
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V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost: \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost: \$ - \$ - \$ \$ \$ \$ \$ \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost: \$ - \$ - \$ \$ \$ \$ \$ \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430		Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D32	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erect	Manhour Row	Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D32 V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erect	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - S - S - S - S - S - S - S - S - S -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 and Erection Tower Type "A3 + 7.5" as per dwg. 505573	Manhour Row	Unit Cost:	\$ - S - S - S - S - S - S - S - S - S -	
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	3 \$
	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-43 Total material Cost per Structure	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ \$ -	3 \$
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ \$ -	3 \$
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V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	3 \$
V::D33	S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-430 Total material Cost per Structure S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-430 Total material Cost per Structure Total material Cost per Structure S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$



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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D35	S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as	per dwg. 50557	Unit Cost:	\$ -	3 \$ -
	S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as per dwg. 505573-4622-				
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V D00	C4 D0C Assembly and Exaction of Community Towns Towns WAO (40) as well	t F0FF70	H-14 O4	•	
V::D36	S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 12" as per S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 12" as per dwg. 505573-4622-43			-	2 \$ -
	OT-DOO PASSENDIY and Election of cuspension forms Type No 112 as per dwg. 500070-4022-40	Elvianinour resw	\$ -	\$ -	
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V::D37	S1-D37 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as			\$ -	2 \$ -
	S1-D37 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as per dwg. 505573-4622-	4 Manhour Row			
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	Total material Cost per Structure			-	
V::D38	S1-D38 Assembly and Erection of Suspension Tower Type "A3 + 15" as pe	er dwg. 505573-	Unit Cost:	\$ -	1 \$ -
	S1-D38 Assembly and Erection of Suspension Tower Type "A3 + 15" as per dwg. 505573-4622-43				
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	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
W. Doo			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
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V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
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V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	3 \$ -
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V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	3 \$ -
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-	4 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
V::D39 V::D40	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per	4 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	3 \$ -
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-	4 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per	4 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per	4 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
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	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per	4 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D41	S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as pe	er dwa 505573	. Unit Cost:	\$ -	0 \$ -
VD41	S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per dwg. 505573-4622-43			Ψ -	- U
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V::D42	S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per	dwa 505573-4	Unit Cost:	\$ -	0 \$ -
VD42	S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43D			4	0 \$
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	Total material Cost per Structure			\$ -	
V::D43	S1-D43 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as pe	r dwg E0EE72	. Unit Cost	\$ -	0 \$ -
V::D43	S1-D43 Assembly and Erection of Suspension Tower Type A4 + 4.5 as per S1-D43 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as per dwg. 505573-4622-43			5 -	0 \$
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V::D44	S1-D44 Assembly and Erection of Suspension Tower Type "A4 + 6" as per S1-D44 Assembly and Erection of Suspension Tower Type "A4 + 6" as per dwg. 505573-4622-43D			\$ -	25 \$ -
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V::D45	S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per S1-D45 Assembly, and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43			\$ -	12 \$ -
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	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	
V.·Dee		dua FAESTO A	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	24.6
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	21 \$ -
V::D46			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		Unit Cost:	\$ - \$ - \$ - \$ \$ -	21 \$ -
V::D46	S1-D46 Assembly and Erection of Suspension Tower Type "A4 + 9" as per		Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	21 \$ -



St-047 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-047 Assembly and Fraction Research Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-047 Assembly and Fraction Research Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-047 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-048 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-058 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost: St-059 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 59657. Unit Cost		Description	QTY	Unit Price	Cost per item	Quantity Total
VI.1049 ST-040 Assembly and Exection of Suspension Town Type "A4 + 15" as per drug 505571- Unit Costs. S				•		
	V::D47				\$ -	18 \$ -
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V::D49 S1-D49 Assembly and Exercision of Suspension Tower Type "A4 + 12" as per days 56573- Unit Cost: 1						-
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Total material Cost per Structure \$ 10 \$						
### 1-04 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-04 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-04 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15" as per days, 50873". Unit Cost. ### 1-05 Assembly and Exection of Suspension Tower Type "A4 + 15"		Total material Cost per Structure		ų.		
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V::D49 St-D49 Assembly and Erection of Suspension Tower Type "A4 + 13.5" as per dwg. 50557. Unit Cost: \$ 12.5					\$ -	
St-Queen Assembly and Execution of Suppression Tower Type "A4 + 15" as per days 505073-4622-4 Marhour Row. S		Total material Cost per Structure			-	
V::D50 V::D50 V::D5	V::D49				\$ -	12 \$ -
S		S1-D49 Assembly and Erection of Suspension Tower Type "A4 + 13.5" as per dwg. 505573-4622-4	Manhour Row		1\$	
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S1-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per dwg. 505573-402-43 Manhour Row:		Total material Cost per Structure		\$ -		-
St-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per dag. \$56573-4622-43! Manhour Row:						
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St-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-4 Manhour Row:	V··D51	S1-D51 Assembly and Frection of Suspension Tower Type "A4 + 16.5" as n	erdwa 50557	" Unit Cost	\$ -	4 \$ -
V::D52 S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Erection of Suspension Tower Type "A4 + 18" as per dwg. 505573- Unit Cost: S1-D52 Assembly and Ere	VDO1			:		
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	Description	QTY	Unit Price	Cost per item	Quantity Total
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V::D53	S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as p S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as per dwg. 505573-4622-4			\$ -	6 \$ -
	S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as per dwg. 505573-4622-4	Mannour Row	\$ -	\$ -	
			\$ -	\$ -	1
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	Total material Cost per Structure			-	
V::D54	S1-D54 Assembly and Erection of Suspension Tower Type "B1 + 0" as per of	dwa 505573-4	f Unit Cost	\$ -	0 \$ -
	S1-D54 Assembly and Erection of Suspension Tower Type "B1 + 0" as per dwg. 505573-4622-43DI			•	
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V::D55	S1-D55 Assembly and Erection of Suspension Tower Type "B1 + 1.5" as pe			\$ -	0 \$
	S1-D55 Assembly and Erection of Suspension Tower Type "B1 + 1.5" as per dwg. 505573-4622-43	Manhour Row			*
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V::D56	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per			\$ -	0 \$ -
V::D56	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D				0 \$ -
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	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D57	Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure	er dwg. 505573 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ \$	
V::D57	Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
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V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D57	Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43D S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-43D	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D57	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D Total material Cost per Structure S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per	er dwg. 505573	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -



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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D59	S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as po	er dwg. 505573	Unit Cost:	\$ -	0 \$ -
	S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43	Manhour Row			
			\$ - \$ -	\$ -	4
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	Total material Cost per Structure		*	\$ -	
V::D60	S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per			-	0 \$ -
	S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per dwg. 505573-4622-43E	niviannour Row	\$ -	-	
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	Total material Cost per Structure		<u> </u>	-	
V::D61	S1-D61 Assembly and Erection of Suspension Tower Type "B1 + 10.5" as p	oer dwg. 50557	Unit Cost:	\$ -	0 \$
	S1-D61 Assembly and Erection of Suspension Tower Type "B1 + 10.5" as per dwg. 505573-4622-				
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	Total material Cost per Structure		Ψ		
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V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe			\$ -	1 \$ -
V::D62					1 \$ -
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe			\$ - \$ -	1 \$ -
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe		\$ - \$ - \$ -	\$ - \$ - \$ -	1 \$ -
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe		\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	1 \$ -
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe		\$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	1 \$ -
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V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::D62	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::D62 V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as	t Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43	t Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as	t Manhour Row	S	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	
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V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure	per dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43	t Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43	t Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43	t Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43	t Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	1 \$
V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43	t Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
V::D63	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43	t Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	1 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D65	S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as p			\$ -	1 \$ -
	S1-D65 Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-4	Manhour Row		¢	T
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	Total material Cost per Structure			\$ -	
V::D66	S1-D66 Assembly and Erection of Suspension Tower Type "B1 + 18" as per			-	1 \$ -
	S1-D66 Assembly and Erection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-431	I Mannour Row	': \$ -	\$ -	
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	Total material Cost per Structure			-	
\/D07	04 D07 Assembly and Freetier of Communical Terror Time IID4 - 40 Elliss on	d 50557	1 H-it 0t-		0.0
V::D67	S1-D67 Assembly and Erection of Suspension Tower Type "B1 + 19.5" as pu S1-D67 Assembly and Erection of Suspension Tower Type "B1 + 19.5" as per dwg. 505573-4622-4;			\$ -	0 \$ -
	S1-D67 Assembly and Erection of Suspension Tower Type B1 + 19.5 as per dwg. 505573-4622-46	alliloui Row	\$ -	-	
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	Total material Cost per Structure			\$ -	
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V::D68	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per			\$ -	1 \$ -
V::D68	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E			\$ -	1 \$ -
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V::D68 V::D69	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ -	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D68 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
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V::D69	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	er dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	0 \$ -
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V::D69	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	er dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
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V::D69	S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	er dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D69	Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D69 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-43E S1-D70 Assembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-43E	er dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
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	Description	QTY	Unit Price	Cost per item	Quantity Total
					
V::D71	S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as p			-	0 \$ -
	S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 505573-4622-4	Manhour Row			
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V::D72	S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as pe	r dwa. 505573-	-4 Unit Cost:	-	1 \$ -
	S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43			•	
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VD70	O4 D70 Assembly and Freetier of Madison Apple Taylor Torre IIDOII Desir D		II-it Ot-		74.6
V::D73	S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic B S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as per dwg. 505573			-	71 \$ -
	S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as per dwg. 505573	- Mannour Row		\$ -	
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V::D74	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle	Tower Type '	"I Unit Cost:	\$ -	17 \$ -
V::D74	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as pe			\$ -	17 \$ -
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V::D74	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as pe		v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	17 \$ -
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	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure	r Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D74 V::D75	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	17 \$ -
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle	or Manhour Row	V:	\$ - \$ - \$ - \$ - \$	
V::D75	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure	le Tower Type	V:	\$ - \$ - \$ - \$ \$ -	19 \$ -
	S1-D75 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure S1-D76 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type Total material Cost per Structure	le Tower Type Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D75	S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure	le Tower Type Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	19 \$ -
V::D75	S1-D75 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure S1-D76 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type Total material Cost per Structure	le Tower Type Manhour Row	V:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	19 \$ -
V::D75	S1-D75 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure S1-D76 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type Total material Cost per Structure	le Tower Type Manhour Row	V:	\$ - \$ - \$ - \$ \$ -	19 \$ -
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V::D75	S1-D75 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure S1-D76 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type Total material Cost per Structure	le Tower Type Manhour Row	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	19 \$ -
V::D75	S1-D75 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure S1-D76 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type Total material Cost per Structure	le Tower Type Manhour Row	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	19 \$ -
V::D75	S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per discovered by the same per structure. Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as graded by the same per structure. Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per discovered by the same per structure.	le Tower Type Manhour Row	V:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	19 \$ -
V::D75	S1-D75 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure Total material Cost per Structure S1-D76 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B2" as per Total material Cost per Structure S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type Total material Cost per Structure	le Tower Type Manhour Row	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	19 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D77	S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle T	ower Type "R1	2 Unit Cost	\$ -	12 \$ -
VD//	S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per of			Ψ -	12 4
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	Total material Cost per Structure		Φ -	\$ -	-
	- Color Marion and Color por Children		I	1 *	
V::D78	S1-D78 Assembly and Erection of +3 m leg extension for Medium Angle To			-	28 \$ -
	S1-D78 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "B2" as per dv	Manhour Row		Φ.	
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	Total material Cost per Structure			\$ -	
V::D79	S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle T	OWAr Type "B"	Unit Coet	\$ -	32 \$ -
V::D/9	S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "B2" as per of the state of			2 -	32 \$
	The state of the s	Trainiour Fton	\$ -	-	
			\$ -	\$ -	
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	A		\$ -	\$ -	
	Total material Coet new Structure		\$ -	\$ - \$ -	
	Total material Cost per Structure				
				Ψ	
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle To	wer Type "B2"	Unit Cost:	\$ -	52 \$ -
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tov S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv			\$ -	52 \$ -
V::D80			\$ -	\$ -	52 \$ -
V::D80			\$ -	\$ -	52 \$ -
V::D80			\$ - \$ - \$ -	\$ - \$ - \$ -	52 \$ -
V::D80			\$ -	\$ - \$ - \$ - \$ - \$ -	52 \$ -
V::D80			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	52 \$ -
V::D80			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	52 \$ -
V::D80			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	52 \$ -
V::D80			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	52 \$ -
V::D80			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	52 \$ -
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D80 V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	52 \$ -
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle T	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per december of the second of the s	ower Type "B2 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	44 \$
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost: Unit Cost: Unit Cost:	\$ - \$ - \$ - \$ \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost: S	\$ - \$ - \$ - \$ \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -
V::D81	S1-D81 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per dv Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per decided by the second of the se	ower Type "B2"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	44 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
		•	•	•	<u> </u>
V::D83	S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic B	ody as per dw	g Unit Cost:	\$ -	21 \$ -
	S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Body as per dwg. 505573	3-Manhour Rov	v:		
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
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	T () () () () ()		\$ -	\$ -	-
	Total material Cost per Structure			-	
				A	
V::D84	S1-D84 Assembly and Erection of +4.5 m body extension for Medium Angle			-	1 \$ -
	S1-D84 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C1" as po	er Manhour Rov			
			\$ -	\$ -	
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	Total material Coat was Structure		\$ -		-
	Total material Cost per Structure	1		-	
	OLDOFA II IF II I I I I I I I I I I I I I I				
V::D85	S1-D85 Assembly and Erection of +10.5 m body extension for Medium Ang			\$ -	6 \$ -
	S1-D85 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C1" as	pe Manhour Rov			
			\$ -	\$ -	
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	Total material Cost per Structure			\$ -	
		1 2 41			
V::D86	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle To			\$ -	0 \$ -
V::D86	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle To S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d		v:		0 \$ -
V::D86			v: -	\$ -	0 \$ -
V::D86			v:	\$ -	0 \$ -
V::D86			v:	\$ - \$ -	0 \$ -
V::D86			v:	\$ -	0 \$ -
V::D86			v:	\$ - \$ -	0 \$ -
V::D86			V:	\$ - \$ - \$ -	0 \$ -
V::D86			V:	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D86			v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D86			V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D86			V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D86	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d		V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D86			V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D86	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle T	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per C1" as pe	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per C1" as pe	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ -	0 \$ -
V::D87	S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per d S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per d S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per d	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D87	S1-D87 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per d Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" as per Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per	w Manhour Rov	v:	\$ - \$ - \$ - \$ - \$ \$ - \$ - \$ \$ -	0 \$ -



	Material Summaries - by Structure				
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D89	S1-D89 Assembly and Erection of +4.5 m leg extension for Medium Angle To	ower Type "C	Unit Cost	\$ -	8 \$ -
VD03	S1-D89 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C1" as per of			Ψ -	0 4
			\$ -	\$ -	
			\$ -	\$ -	<u> </u>
			\$ - \$ -	\$ - \$ -	_
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	Total material Cost per Structure		Ψ -	\$ -	
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V::D90	S1-D90 Assembly and Erection of +6 m leg extension for Medium Angle Tov			-	4 \$ -
	S1-D90 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C1" as per dv	wiviannour Row	\$ -	\$ -	
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V::D91	S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle To	ower Type "C	Unit Cost:	\$ -	8 \$ -
	S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per				
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V::D92	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tov			\$ -	20 \$ -
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	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Bo	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Bo	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Bo	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Bo	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
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Desc	scription	QTY	Unit Price	Cost per item	Quantity Total
					
	D95 Assembly and Erection of +10.5 m body extension for Medium Angle			\$ -	0 \$ -
S1-D9	D95 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "C2" as p	Manhour Row	r:		
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V::D96 S1-D	D96 Assembly and Erection of +0 m leg extension for Medium Angle Tov	ver Type "C2"	Unit Cost:	-	16 \$ -
S1-D9	096 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	r:		
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<u> - 346</u>	•				
V::D97 S1-D	D97 Assembly and Erection of +1.5 m leg extension for Medium Angle To	ower Type "C	2 Unit Cost:	\$ -	4 \$ -
	097 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C2" as per of				
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VD08 S1-F	DOS Assembly and Frection of +3 m leg extension for Medium Angle Toy	ver Type "C2"	Unit Cost:	•	28 \$ _
	D98 Assembly and Erection of +3 m leg extension for Medium Angle Tow			\$ -	28 \$ -
	D98 Assembly and Erection of +3 m leg extension for Medium Angle Town 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection for the Erection for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection for the Erection for Medium Angle Tower Type "C2" as per dwg 198 Assembly and Erection for the Erection fo				28 \$ -
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S1-D0	998 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ -
S1-D0			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ -
S1-Di	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	28 \$ -
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D0	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - 5 -	
S1-Di	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw all material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per decided by the second of	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
S1-Di	298 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - 5 -	
V::D99 S1-E S1-D9	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D99 S1-E S1-D3	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C2 ower Type "C2 ower Type "C2	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
V::D99 S1-E S1-D3	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C2 ower Type "C2 ower Type "C2	2 Unit Cost:	\$ - \$ - \$ - \$ \$ -	20 \$ -
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V::D99 S1-E S1-Di	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C wer Type "C2	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D99 S1-E S1-Di	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C wer Type "C2	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D99 S1-E S1-Di	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C wer Type "C2	2 Unit Cost: S	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D99 S1-E S1-Di	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C wer Type "C2	2 Unit Cost:	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D100 S1-E S1-D100 S1-E S1-D100 S1-E	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per decided as per deci	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C wer Type "C2	2 Unit Cost: S	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D100 S1-E S1-D100 S1-E S1-D100 S1-E	al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw al material Cost per Structure D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per december of the second of the seco	Manhour Row ower Type "C Manhour Row wer Type "C wer Type "C wer Type "C2	2 Unit Cost:	\$ - \$ - \$ - \$ \$ -	20 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D101	S1-D101 Assembly and Erection of +7.5 m leg extension for Medium Angle			\$ -	24 \$ -
	S1-D101 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per	Manhour Row		¢	Ţ
			\$ - \$ -	\$ - \$ -	+
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	Total material Cost per Structure			\$ -	
V::D102	S1-D102 Assembly and Erection of +9 m leg extension for Medium Angle To			-	20 \$ -
	S1-D102 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per d	Manhour Row			
			\$ -	\$ -	-
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			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D103	S1-D103 Assembly and Erection of Dead-End Tower Type "D1" Basic Body	as per dwg. 5	(Unit Cost:	\$ -	24 \$ -
	S1-D103 Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-46	Manhour Row			
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	Total material Cost per Structure		\$ -	\$ - \$ -	+
	Total material dost per off detaile			Ψ	
				•	
V::D104	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End To	wer Type "D1'	" Unit Cost:	\$ -	3 \$ -
V::D104	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End To S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dr			\$ -	3 \$ -
V::D104	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End To S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per difference of the Company of the Compan			\$ -	3 \$ -
V::D104					3 \$ -
V::D104			: \$ -	\$ -	3 \$ -
V::D104			\$ -	\$ -	3 \$ -
V::D104			\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D104			\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D104			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D104			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D104			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D104	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per di		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
V::D104			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per disconnected to the second state of the second state of the second secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D104 V::D105	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per disconnected to the second state of the second state of the second secon	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D105 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the seco	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D105	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "De Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S	\$ - \$ - \$ - \$ \$ -	
V::D105	S1-D104 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	S	\$ - \$ - \$ - \$ \$ -	3 \$ -
V::D105	S1-D105 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per discovered by the second of the secon	ower Type "D' Manhour Row Type "D1" as	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	3 \$ -



				_	
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D107	S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Town			\$ -	0 \$ -
	S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dw	Manhour Row			
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	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material oddt per otraetare	1		1 🔻	
V::D108	S1-D108 Assembly and Erection of +3 m leg extension for Dead-End Tower			-	40 \$ -
	S1-D108 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg.	Mannour Row	:	\$ -	
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	Total material Cost per Structure		\$ -	\$ - \$ -	
	- Oth material out por off actual				
V::D109	S1-D109 Assembly and Erection of +4.5 m leg extension for Dead-End Town			\$ -	16 \$ -
	S1-D109 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dw	ıvıannour Row	\$ -	-	· ·
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			\$ -	\$ -	4
	Total material Cost per Structure		\$ -	\$ - \$ -	4
	Total material ossi por or actual				
V::D110	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower			\$ -	28 \$ -
	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg.	Mannour Row	\$ -	\$ -	
			\$ -	\$ -	1
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	Total material Cost per Structure		5	\$ -	-
V::D111	S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Town S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dw			\$ -	12 \$ -
	31-DTTT Assembly and Election 01-7.3 Three extension to Dead-End Tower Type DT as per dw	givianiioui itow.	-	\$ -	
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			\$ -	\$ -	4
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	Total material Cost per Structure		\$ - \$ -	\$ - \$ -	
V::D442		Type D4 c-	\$ - \$ - \$ -	\$ - \$ - \$ -	
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - Unit Cost:	\$ - \$ - \$	0 \$ -
V::D112			\$ - \$ - \$ - Unit Cost:	\$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - \$ - Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D112	S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower		Unit Cost: 	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -



V::D113	Description	QTY	Unit Price	Cost per item	Quantity Total
	S1-D113 Assembly and Erection of Dead-End Tower Type "D2" Basic Body	as per dwg. 50	Unit Cost:	\$ -	15 \$ -
	S1-D113 Assembly and Erection of Dead-End Tower Type "D2" Basic Body as per dwg. 505573-46			•	
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	Total material Cost per Structure			\$ -	
V 5444		T "Da"		•	
	S1-D114 Assembly and Erection of +4.5 m body extension for Dead-End To S1-D114 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D2" as per d			-	1 \$ -
ļ	or Birringsonish, and Eroddon of Anom Body oxidination for Bodd End Torior Typo BE deport	THE HEAD TO THE	\$ -	\$ -	
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	Total material Cost per Structure		\$ -	\$ -	
•		1			
	S1-D115 Assembly and Erection of +10.5 m body extension for Dead-End T			\$ -	0 \$ -
1	S1-D115 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D2" as per	Manhour Row		•	
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	Total material Cost per Structure			-	
V::D116	S1-D116 Assembly and Erection of +0 m leg extension for Dead-End Tower	Type "D2" as	Unit Cost:	\$ -	16 \$ -
	S1-D116 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg.				
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•		Two IDOL o	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	20 \$ -
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117	S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town S1-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw Total material Cost per Structure S1-D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	g Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D119	S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Towe	er Type "D2" a	: Unit Cost:	\$ -	4 \$ -
	S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg				
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	Total material Cost per Structure			\$ -	
V 5400		T "Do"		•	
V::D120	S1-D120 Assembly and Erection of +6 m leg extension for Dead-End Tower S1-D120 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg.			-	8 \$ -
	31-D120 Assembly and Election of #6 fit leg extension for Dead-End Tower Type D2 as per dwg.	: Walliou Row	-	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
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			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ -	
	Total material Cost per Structure			-	
V::D121	S1-D121 Assembly and Erection of +7.5 m leg extension for Dead-End Towe	er Type "D2" a	Unit Cost:	\$ -	0 \$ -
	S1-D121 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D2" as per dw	Manhour Row			
			\$ -	\$ -	
			\$ -	\$ - \$ -	
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			\$ -	\$ -	1
	Total material Continue Constitute				
	Total material Cost per Structure			\$ -	
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower			\$ -	4 \$ -
V::D122				\$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower			\$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - \$ -	\$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg.		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower		S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D122 V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg.	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure	Manhour Row as per dwg. 50	\$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46	Manhour Row as per dwg. 50	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	Manhour Row as per dwg. 50	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure	as per dwg. 50	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	15 \$ -
	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure	as per dwg. 5(Manhour Row) wer Type "E1"	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -
V::D123	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5(Manhour Row) wer Type "E1"	Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	15 \$ -



	Material Summaries - by Structure				
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D125	S1-D125 Assembly and Erection of +10.5 m body extension for Dead-End To	ower Tyne "F1	Unit Cost	\$ -	0 \$ -
VD123	S1-D125 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "E1" as per of			-	0 \$ -
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material Cost per Structure			-	
V::D126	S1-D126 Assembly and Erection of +0 m leg extension for Dead-End Tower			-	8 \$ -
	S1-D126 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "E1" as per dwg.	Manhour Row:	\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D127	S1-D127 Assembly and Erection of +1.5 m leg extension for Dead-End Towe	r Type "F1" a	Unit Cost	\$ -	4 \$ -
VD121	S1-D127 Assembly and Erection of +1.5 in leg extension for Dead-End Tower Type "E1" as per dwg				4 \$
			-	-	
			\$ -	\$ - \$ -	
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	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material cost per off detaile			.	
V::D128	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower			\$ -	0 \$ -
	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg.	Mannour Row:	\$ -	-	
			\$ -	\$ -	
			\$ -	\$ -	
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			\$ - \$	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D129	S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Towe	er Type "F1" as	Unit Cost:	\$ -	20 \$ -
	S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg				
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			\$ -	\$ - \$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	1
V::D130	S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower			-	<mark>16</mark> \$ -
	S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg.	iviaiiiloui Kow:	\$ -	\$ -	
			\$ -	\$ -]
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			\$ - \$ -	\$ - \$ -	1
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	



S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: \$ - \$ - \$ \$ - \$	
S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row:	Total
S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: S - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
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\$ - \$ -	
Total material Cost per Structure \$ -	
V::D132 S1-D132 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "E1" as Unit Cost:	0 \$ -
S1-D132 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "E1" as per dwg. (Manhour Row:	
\$ - \$ -	
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\$ - \$ -	
Total material Cost per Structure \$ -	
V::E01 S1-E1 Installation of Counterpoise wire, connection with tower grounding Unit Cost:	7 \$ -
S1-E1 Installation of Counterpoise wire, connection with tower grounding Manhour Row:	
\$ - \$ -	
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Total material Cost per Structure \$ -	
V::E02 S1-E2 Installation of ground rods at crossing obstacles in soil and rock Unit Cost: \$ - 12	20 \$ -
S1-E2 Installation of ground rods at crossing obstacles in soil and rock Manhour Row:	•
\$ - \$	
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Total material Cost per Structure \$ -	
Total material Cost per Structure \$ -	7 ¢ _
Total material Cost per Structure \$ -	<mark>.7</mark> \$ -
V::E03 S1-E3 Tower Footing resistance measurement	27 \$ -
V::E03 S1-E3 Tower Footing resistance measurement Unit Cost: \$ - 22 S1-E3 Tower Footing resistance measurement Manhour Row: S1-E3 Tower Footing resistance measurement Manhour Row:	27 \$ -
V::E03 S1-E3 Tower Footing resistance measurement Unit Cost:	-
V::E03 S1-E3 Tower Footing resistance measurement Unit Cost: \$ - 22 S1-E3 Tower Footing resistance measurement Manhour Row: S1-E3 Tower Footing resistance measurement Manhour Row:	-
Total material Cost per Structure	-
V::E03 S1-E3 Tower Footing resistance measurement Unit Cost: \$ - 22	-
V::E03 S1-E3 Tower Footing resistance measurement Unit Cost: \$ - 22	-
Total material Cost per Structure Unit Cost: 5 - 22 S1-E3 Tower Footing resistance measurement Manhour Row: \$ - \$ - \$ - \$ -	-
V::E03 S1-E3 Tower Footing resistance measurement Unit Cost: \$ - 22 S1-E3 Tower Footing resistance measurement Manhour Row: \$ - <	-
Total material Cost per Structure	



	Material Summaries - by Structure				
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::E05	S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	Grackle Condi	Unit Cost	\$ -	0 \$ -
VE00	S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR Grackle Conductor, co			•	
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			\$ -	\$ -	
			\$ -	\$ -	
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			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::E06	S1-E6 Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR	Falcon Condu	Unit Cost	\$ -	0 \$
****	S1-E6 Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR Falcon Conductor, con			•	
			\$ -	\$ -	
			\$ -	\$ -	-
			\$ - \$	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::E07	S1-E7 Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR G	Frackle Condu	Unit Cost	\$ -	0 \$
VEU/	S1-E7 Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR Grackle Conductor, con				-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	-
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			\$ -	\$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$	
VE00	C4 F0 Installation of Conductor on Wood Dalog, 4500 0 komil 5440 ACCD F	Talaan Candus	Unit Coot	\$ -	0.6
V::E08	S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR F S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR Falcon Conductor, com			-	0 \$ -
			\$ -	\$ -	
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			\$ -	\$ - \$ -	-
	Total material Cost per Structure		7	\$ -	
\/ E00	O4 FO Installation of ADOC on Wood Poles		Hait Oaat	•	0 \$ -
V::E09	S1-E9 Installation of ADSS on Wood Poles S1-E9 Installation of ADSS on Wood Poles	Manhour Row:	Unit Cost:	-	0 \$ -
			\$ -	\$ -	
			\$ -	\$ -	4
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			\$ -	\$ -	1
			\$ -	\$ -	
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			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$ -	1
V::E10	S1-E10 ADSS splicing and tests including loss analysis		Unit Cost:	\$ -	0 \$ -
VE10		Manhour Row:		•	
	, , ,		\$ -	\$ -	
			\$ -	\$ -	4
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	•		\$ -	\$ -	1
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			\$ - \$ -	\$ - \$ -	1 1
			\$ - \$ - \$ -	\$ - \$ - \$	
	Total material Cost per Structure		\$ - \$ - \$ -	\$ - \$ - \$ -	



	Material Summaries - by Structure				<u> </u>
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::E11	S1-E11 ADSS end to end test		Unit Cost:	\$ -	0 \$ -
	S1-E11 ADSS end to end test	Manhour Row			
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	-
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		ų –	\$ -	
V:-E40	CA FAO CA . Installation of ODOW		Unit Cost:	\$ -	
V::E12	S1-E12 S1 - Installation of OPGW S1-E12 S1 - Installation of OPGW	Manhour Row		-	0 \$ -
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
V::E13	S1-E13 OPGW Continuity tests before and after stringing S1-E13 OPGW Continuity tests before and after stringing	Manhour Row	Unit Cost:	\$ -	1 \$ -
	, , , , , , , , , , , , , , , , , , , ,		\$ -	\$ -	
		_	\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	-
			\$ -	\$ -	
			-	\$ - \$ -	4
	Total material Cost per Structure		\$ -	\$ - \$ -	-
	24.544.00000 15: 14.4.5.1.15		11.00		
V::E14	S1-E14 OPGW splicing and tests including loss analysis S1-E14 OPGW splicing and tests including loss analysis	Manhour Rows	Unit Cost:	\$ -	50 \$ -
			\$ -	\$ -	
		_	\$ - \$ -	\$ -	-
			\$ -	\$ -	<u> </u>
			\$ -	\$ -	
			\$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ - \$ -	\$ -	4
	Total material Cost per Structure		\$ -	\$ - \$ -	-
=					
V::E15	S1-E15 OPGW end to end test S1-E15 OPGW end to end test	Manhour Row	Unit Cost:	-	1 \$ -
	T. E. WOLLD WIND LINE		\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
			\$ -	\$ -	4
	Total material Cost per Structure		\$ -	\$ - \$ -	1
V=0:			H-it C		
V::F01	S1-F1 Install 18" Aerial marker cones S1-F1 Install 18" Aerial marker cones	Manhour Row	Unit Cost:	-	5 \$ -
		2	\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure			\$ -	<u>† </u>
		-			



	Material Summaries - by Structure	low.		Ta	la «
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::G01	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawin			\$ 2,300.00	0 \$ -
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 505573-4633-4ZDD Wood pole 2 m blast	- Mannour Row:		\$ 2,300.00	1
			\$ -	\$ -]
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			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 2,300.00	
	•			\$ 2,300.00	
V::G02	S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys			\$ 2,300.00	0 \$ -
	S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing 50557 Wood pole 2 m blast	0.4		\$ 2,300.00	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 2,300.00	
	Total material Gost per Gracture			Ψ 2,300.00	
V::G03	S1-G3 Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with Gu S1-G3 Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with Guys as per Drawing 505			\$ 2,300.00	0 \$
	Wood pole 2 m blast	0.4		\$ 2,300.00	
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
	4		\$ -	\$ -	
	T. I		\$ -	\$ -	
				2 300 00	
	Total material Cost per Structure			\$ 2,300.00	
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys		Unit Cost:	\$ 2,300.00 \$ 2,300.00	
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557				0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys	Manhour Row:	\$ 5,750.00 \$ -	\$ 2,300.00 \$ 2,300.00 \$ -	0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557	Manhour Row:	\$ 5,750.00 \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ -	0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557	Manhour Row:	\$ 5,750.00 \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ -	0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557	Manhour Row:	\$ 5,750.00 \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557	Manhour Row:	\$ 5,750.00 \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ -	0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557	Manhour Row:	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast	Manhour Row:	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure	Manhour Row: 0.4	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::G04 V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with	Manhour Row: 0.4	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure	Manhour Row: 0.4	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing	Manhour Row: 0.4 Guys as per I	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure	o Guys as per I Manhour Row: 0.4	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast	abrador as pe	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure	abrador as pe	\$ 5,750.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,300.00 \$ 2,300.00 \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,300.00 \$ 2,300.00 \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -
V::G05	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 50557 Wood pole 2 m blast Total material Cost per Structure S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing Wood pole 2 m blast Total material Cost per Structure S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in L81-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing	abrador as pe	\$ 5,750.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 2,300.00 \$ 2,300.00 \$ \$ \$ \$ \$ \$ \$ \$	0 \$ -



Description QTY Unit Price Cost per item Quantity Total material Cost per Structure S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as replacement for H-pile design S1-I2 Design and supply of micropile option as repla	al -
S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Manhour Row: S	
S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and Manhour Row: S	-
S	
S - S - S - S - S - S - S - S - S - S	
S - S - S - S - S - S - S - S - S - S	
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S1-I3 Optional cost for mulching given area instead of salvaging Manhour Row:	
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:105 S1-15 Slack Span Connections - Installation of all Conductor and OPGW from Terminal To Unit Cost:	
S1 IS Slack Span Connections Installation of all Conductor and ODCW from Tarminal Towar to the Manhour Down	-
S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the Manhour Row:	
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I07	S1-I7 Supply and Installation of Culvert - 1000 mm		Unit Cost:	\$ -	19 \$ -
	S1-I7 Supply and Installation of Culvert - 1000 mm	Manhour Row			
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V::I08	S1-I8 Supply and Installation of Culvert - 1200 mm		Unit Cost:	\$ -	19 \$ -
	S1-I8 Supply and Installation of Culvert - 1200 mm	Manhour Row			
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V::I09	S1-I9 Supply and Installation of Culvert - 1600 mm		Unit Cost:	\$ -	19 \$ -
	S1-I9 Supply and Installation of Culvert - 1600 mm	Manhour Row			
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V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm		Unit Cost:	\$ -	19 \$ -
V0	S1-I10 Supply and Installation of Culvert - 2000 mm	Manhour Row		Ψ	ΙΟ Ψ
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V::I11	S1-I11 Supply and Installation of Culvert - 2400 mm S1-I11 Supply and Installation of Culvert - 2400 mm	Manhour Row		-	19 \$ -
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V14.2	\$1.112 Supply and Installation of Culturet 2000		Unit Cost	e	19 \$ -
V::I12	S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert - 3000 mm	Manhour Row	Unit Cost:	-	19 \$ -
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V:132 S1-32 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight ir Unit Cost: S1-33 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of Marhour Row: S1-33 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of Marhour Row: S1-33 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of Marhour Row: S1-33 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-34 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-35 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-34 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-35 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-35 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight in Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight in Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Cost: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Unit Co
V:332 S1-32 Assembly and installation of Foundation Type D1-2, per kg, to be used for weight in Unit Cost: S1-32 Assembly and installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-33 Assembly and installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-33 Assembly and installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-33 Assembly and installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Manhour Rov: S1-35 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of Walnour Rov: S1-35 Assembly and Installation End End End End End End End End End En
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V::136 S1-136 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases c Unit Cost:
S1-I36 Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreas Manhour Row:
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:137	Description	QTY	Unit Price	Cost per item	Quantity Total
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	S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for wei	ight increases	c Unit Cost:	\$ -	1 \$ -
	S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decrea				
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138	S1-I38 Assembly and Erection of Tower Type A4, per kg, to be used for wei	inht increases	C Unit Cost:	\$ -	1 \$ -
.00	S1-I38 Assembly and Erection of Tower Type A4, per kg, to be used for weight increases or decrea			Ψ /	
	51-100 7035 mility and Election of Tower Type 744, per kg, to be used for weight moreases of decree	Sivialillour Roy	-	\$ -	
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139	S1-I39 Assembly and Erection of Tower Type B1, per kg, to be used for we			\$ -	1 \$ -
	S1-I39 Assembly and Erection of Tower Type B1, per kg, to be used for weight increases or decrea	s Manhour Roy			
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:140	S1-I40 Assembly and Erection of Tower Type B2, per kg, to be used for we	ight increases	C Unit Cost:	\$ -	1 \$ -
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141	Total material Cost per Structure S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for we	ight increases	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	1 \$ -
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l 4 1	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
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:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - 5 - 5	1 \$ -
:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - \$ - \$ 5 - \$	1 \$
:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	1 \$ -
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141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
l 41	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. Total material Cost per Structure	is Manhour Row	C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	
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	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases.	is Manhour Row	C Unit Cost: S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
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::I41 :::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases.	is Manhour Row	C Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



Material Summaries - by Structure

Description	QTY	Unit Price	Cost per item	Quantity Total
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S1-I43 Assembly and Erection of Tower Type D1, per kg, to be used for we	eight increases or decreas Manhour Ro			T
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Total material Cost per Structure		Ų.	\$ -	
S1-I44 Assembly and Erection of Tower Type D2, per kg,	to be used for weight increases	s c Unit Cost:	\$ -	1 \$
S1-I44 Assembly and Erection of Tower Type D2, per kg, to be used for we		w:		
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Total material Cost per Structure		\$ -	\$ - \$ -	
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S1-I45 Assembly and Erection of Tower Type E1, per kg,			\$ -	1 \$
S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for we	eight increases or decreas Mailflour Ro	\$ -	\$ -	
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Total material Cost per Structure		4	\$ -	
S1-I46 Survey Cost		Unit Cost:	\$ 1,338,817.7	1 1 1,338,81
S1-I46 Survey Cost S1-I46 Survey Cost	Manhour Ro		Ψ 1,000,01111	1,000,01
Survey Cost Segment 3		1 \$ 1,338,817.7		1
		\$ -	\$ -	
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		\$ -	\$ -	7
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		\$ -	\$ -	
Total material Cost per Structure			\$ 1,338,817.7	1
ider) RiderPole		Unit Cost:	\$ 236.9	0 20 \$ 4,73
RiderPole Screened Crushed Rock (Tonne)	Manhour Ro	w: 5 \$ 47.38	\$ 236.9	n I
Coloured Ordanica Rook (Follie)		\$ -	\$ 230.9	-
		\$ -	\$ -	╡
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		\$ -	\$ -	
Total material Cost per Structure			\$ 236.9	0
Total Materials		404 070 401 11		
Total Materials:	\$	104,972,464.19		

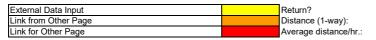
NALCOR 350 kV HVdc Line Construction front 2R5p.xlsx 10/01/2014 Page 49 of 49

Mobilization for main portion of project





no (yes/no) 900 km 45 km/hr.



Personnel

Designation	Quantity	Rate	Hrs.
Supervisor	2	\$ 142.83	20.00
Foreman	16	\$ 120.15	20.00
Surveyor	8		20.00
Lineman	16	\$ 111.85	20.00
Apprentice - 4th Year	14	\$ 103.90	20.00
Apprentice - 3rd Year	21	\$ 95.95	20.00
Apprentice - 2nd Year	8	\$ 87.99	20.00
Apprentice - 1st Year	5	\$ 80.04	20.00
Equipment Operator	27	\$ 96.49	20.00
Truck Driver / Picker Op.	22	\$ 107.16	20.00
Labourer	5	\$ 87.44	20.00

Equipment

Description	Quantity	Rate	Hrs.
Pickup	13		20.00
Crew Cab Truck		\$ 29.20	20.00
Conductor Splicing Truck	1	\$ 46.02	20.00
OPGW Splicing Truck	1	\$ 93.60	20.00
Picker - 17 Ton	7	\$ 136.27	20.00
Picker - 38 Ton	2	\$ 180.25	20.00
40T RT Crane	3	\$ 195.70	20.00
60T RT Crane	1	\$ 247.20	20.00
80T RT Crane	1	\$ 345.05	20.00
Digger - TelElect 5052	2	\$ 89.40	20.00
120' Gene Lift	2	\$ 87.55	20.00
53' Tridem trailer	15	\$ 11.85	20.00
T/A Gravel Truck	1	\$ 68.13	20.00
T/A Rock Truck	1	\$ 121.67	20.00
Tractor Trailer/Picker	4	\$ 134.6 7	20.00
Tractor Trailer (Heavy)	4	\$ 134.67	20.00
Crawler Tractors 750 JD	3	\$ 165.83	20.00
JD 310 Back Hoe	1	6 8.13	20.00
JD 554 Loader	13	\$ 69.27	20.00
JD 290 Track-hoe	5	\$ 130.60	20.00
Nodwells - Picker over 17 Ton	2	\$ 228.25	20.00
Nodwell - Digger	1	\$ 130.60	20.00
Trencher	1	\$ 84.36	20.00
10T Tele-Handler	7	\$ 53.00	20.00
Quad or Side by Side	8	\$ 24 .21	20.00
Reel Trailer	3	\$ 72.10	20.00
Tensioner	1	\$ 139.05	20.00
Puller	1	\$ 139.05	20.00
1 Drum Puller	1	\$ 77.25	20.00
Single Tensioner	1	\$ 77.25	20.00
Single Traveller	50	\$ 0.52	20.00
JD 350 LDC Excavator	5	\$ 160.89	20.00
Compressor	3	\$ 22.04	20.00
Grout truck	2	\$ 82.40	20.00
Rock Drill	2	\$ 103.00	20.00
Press & Pump, Genset, Light plant	14	\$ 13.46	20.00
Water pump	3	\$ 40.99	20.00
Pilot Line Winder	1	\$ 92.70	20.00
Spacer Buggy	3	\$ 46.35	20.00
Travellers (ea)	200		20.00
Traffic Control Sign	2	\$ 21.84	20.00
Hoe-Pack	1	\$ 25.75	20.00
Survey Equipment	8	\$ 56.65	20.00
Heavy Lift Helicopter - Operated	1	\$ 17,725.89	16.00
Light Duty Helicopter - Operated	1	\$ 1,905.50	20.00

Lowbedding

Description	Quantity	Rate	Hrs.
Dead-hea <mark>ds</mark>	50	\$ 218.50	40.00
Direct-hauls	8	\$ 218.50	20.00

Other

Description	Quantity	Rate
Pile Contractor Mobilization	1	\$ 287,500.00
Anchor Sub Mobilization	1	\$ 300.150.00



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18 Months Project Duration: 450 Days

	Positions	Hrs Day	Days	Hourly Rate
Quanta Executive Representative	1	11	112.5	N/C
Project manager	1	11	450	\$ 200.00
Supervisors	5	11	450	\$ 142.83
QA	4	11	450	\$ 103.90
Human Resources Coordinator	0.5	11	450	\$ 111.85
Environmental Lead	0.33	11	450	\$ 200.00
Environmental Coordinator	1	11	450	\$ 142.83
Environmental Monitor	2	11	450	\$ 95.95
Project Administration	4	11	450	\$ 95.95
Safety Supervisor	1	11	450	\$ 142.83
Camp Field Medical Staff	2	12	450	\$ 142.83
First Aid Attendant	2	11	450	\$ 142.83
HS&E Manager	0	11	450	\$ 142.83
Geotechnical consultant	0	11	450	\$ 175.00
Material Manager c/w truck	2	11	450	\$ 128.26
ROW coordinator	4	11	450	\$ 142.83
Mechanic	2	11	450	\$ 111.85
Pick up Trucks For Above	29.83333333	11	450	\$ 24.36

Facilities:

	Units	Quantity	Months	Mont	thly Rate
Office Trailer	each	4	20	\$	1,800. 00
Storage Vans	each	10	20	\$	350.00
Washrooms	each	6	20	\$	150.00
Yard and Waste Handling	month	2	20	\$	2,500.00
Fuel Storage	Lump Sum	2	20	\$	2,500.00

Training & 0	Orientation Ex	tra Training Allowand	. _	8	Hou	rs	
Crew#		Hrs / Week		Total Hours		rly Rate	Crews
	Hauling	1	186	194		195.16	Orews
	Site Preparation	1	19	27		308.98	
	Blocking Crew	1	18	26		192.44	
	Lattice Assembly	1	414	422	\$	835.34	-
	Tower Topping	1	39	47	\$	950.45	
	Haul Travellers&Glass	<u></u>	22	30	\$	403.50	
						840.02	1
	Hang Travellers		15	23			
	Wire Hauling	1	48	56	\$	195.16	
	Pull Site Prep	1	21	29	\$	804.62	
	Stringing	1	37	45		2,990.79	
	Tie -in	1	20	28		418.85	1
	Deadends	1	20	28		835.88	1
	OPGW Install	1	11	19		1,458.94	1
	Rider Pole Crew	1	2	10		718.80	1
	Foundation Haul	1	43	51	\$	195.16	1
	Foundation Survey (\$250/h)	1	2	10	\$	223.70	1
19	Found Excavation	1	103	111	\$	601.52	1
20	Grillage Installation	1	40	48	\$	627.54	1
	Backfill and Compact	1	61	69	\$	432.84	1
	Site Cleanup	1	32	40	\$	96.49	1
	Grout Crew	1	82	90	\$	260.13	1
	Concrete Foundations	1	91	99	\$	614.08	1
	Ground Testing	1	6	14	-	208.34	
	Camp Site Preparation	1	8	16		465.55	-
	Supervisory	1	14	22	\$	142.83	1
	Rock Foundations	1	87	95	\$	516.53	1
		1			_		
	Guy Install	1	16	24	\$	795.31	
	Y- Tower Erection	1	20	28	\$	899.47	
	Tower Plumb	1	14	22	\$	711.72	
	OPGW Splice	1	19	27	\$	174.87	1
	Counterpoise Instal	1	33	41	\$	424.98	1
	Camp Setup	1	6	14	-	1,293.35	1
46	Camp Haul	1	58	66	\$	107.16	1
							1
	ing along Active Haul Roads - 2x flaggers			Days	\$	814.00	60
	essna Conquest			Hours	\$	1,300.00	579
Executive A	ir Fare - Commercial 112.5 Tickets at \$800.00 / t	rip		Each	\$	800.00	113
Air Fare - C	ommercial 1150 Tickets at \$800.00 / trip			Each	\$	800.00	1150
Temporary	Shop Facilities			Each	\$	60,000.00	2
Employee D	Orug Testing			test	\$	115.00	386
Buttdowns r				Ea	\$	1,600.00	45
	Material for slug sites			Ea	\$	20,000.00	2
	s for 3633 kcmil			Ea	\$	1,600.00	20
Special hois				Ea	\$	2,400.00	20
Engineered				Еа	\$	175.00	200
	t (work planning, drawings)			Еа	\$	175.00	30
				Month	\$	5,000.00	18
	ge and maintenance				_		
	support Small			Hr	\$	1,905.50	1350
	support Medium			Hr	\$	3,071.98	2400
Property rer				Month	\$	3,500.00	18
Doctor supp			1.	Month	\$	5,000.00	18
	al culverts based on 2 culverts per/km over 1104				\$	661,320.00	,
	al culverts based on 2 culverts per/km over 1104	km of all season road	d including reclamatio		\$	843,480.00	
	maintenance/snowplowing			ea	\$	259,200.00	4
	ital Response Material (per section)			LS	\$	50,000.00	1
Misc. Mater	ial (galvacon, pins, stakes, flagging, hoarding ma	iterial)		LS	\$	40,000.00	2
		·			_		

Tools:

	Unit	Unit cost		Quantity
Traffic Accommdation Signage	Lump Sum	\$ 3	7,000.00	2
IT System	Lump Sum	\$ 30	0,000.00	1
Computer & Office Equipment	ea	\$	1,000.00	15
Operate Cell Phone	unit-month	\$	400.00	50

Other:

Engineering Support	Lump Sum	\$ 150,000.00	1



LOWER CHURCHILL PROJECT CT0327 CONSTRUCTION OF 350kV HVdc TRANSMISSION LINE: SEGMENTS 4 and 5

Valard Construction LP

Rev 00, 01-Nov-2013

SCHEDULE OF PRICE BREAKDOWN

	Providence	11-2-604	[Hote March and the s	5	94-4	1 - h (A)	T-1-111-2-10-2-16)	Colored Briss (A)
Item No. S1-A	Description General Works (S1-Ax)	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
0271	Mobilization and Demobilization							I	
S1-A1	Initial Mobilization	LS	1	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000.00	\$ 2,000,000.00
S1-A2	Final Demobilization Accommodation Camp	LS	1	\$ -	\$ -	\$ -	\$ -		\$ -
S1-A3	Accommodation Camp Installation	LS	1	\$ 410,378.60	\$ 19,361,253.43	\$ 7,635,492.57	\$ 24,946,304.99	\$ 51,943,050.99	\$ 51,943,050.99
S1-A4	Boarding and Lodging for Company/Engineer with 3 meals per day	person-day	24,000	\$ 52,800.00	\$ 2,173,440.00	\$ 927,360.00	\$ 2,899,440.00	\$ 250.01	\$ 6,000,240.00
S1-A5	Meals for Company/Engineer visitors	meal	2,000	\$ 733.48	\$ 30,200.00	\$ 12,880.00	\$ 40,280.00	\$ 41.68	\$ 83,360.00
S1-A6	Performance Security Parent Guarantee Article 7.4	LS	1	\$ -	\$ -	\$ -	ċ	ς -	ς -
S1-A6	Letter Of Credit Article 7.6	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-A8	Performance Bonding Article 7.1	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-A9	Labour and Materials Bonding Article 7.2	LS	1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
04.5		Sub-total (S1-Ax)	: General Works	463,912.08	\$ 21,564,893.43	\$ 8,575,732.57	\$ 27,886,024.99	\$ 53,943,342.68	\$ 60,026,650.99
\$1-B	Right-of-Way Clearing - Direct Costs (S1-Bx) Right-Of-Way Clearing							l	
S1-B1	ROW Clearing	На	2,737	\$ 332,350.00	\$ 26,754,175.00	\$ -	\$ 26,754,175.00	\$ 19,550.00	\$ 53,508,350.00
S1-B2	Removal of selected danger trees	EA	1,000	\$ 1,304.35	\$ 105,000.00	\$ -	\$ 105,000.00	\$ 210.00	\$ 210,000.00
S1-B3	Supply and Installation of Culvert - $600 \text{ mm} \times 1.6 \text{ mm}$ thick aluminized type 2	LM	1,455	\$ 2,309.96	\$ 61,983.00	\$ 371,898.00	\$ 185,949.00	\$ 426.00	\$ 619,830.00
S1-B4	Supply and Installation of Bridge - 3 m	EA	219	\$ 26,688.07	\$ 716,130.00	\$ 4,296,780.00	\$ 2,148,390.00	\$ 32,700.00	\$ 7,161,300.00
S1-B5 S1-B6	Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 5 m	EA EA	20	\$ 324.97 \$ 4,062.11	\$ 8,720.00 \$ 109,000.00	\$ 52,320.00 \$ 654,000.00	\$ 26,160.00 \$ 327,000.00	\$ 43,600.00 \$ 54,500.00	\$ 87,200.00 \$ 1,090,000.00
S1-B7	Supply and Installation of Bridge - 6 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B8	Supply and Installation of Bridge - 7 m	EA	15	\$ 4,265.22		\$ 686,700.00	\$ 343,350.00	\$ 76,300.00	\$ 1,144,500.00
S1-B9 S1-B10	Supply and Installation of Bridge - 8 m Supply and Installation of Bridge - 10 m	EA EA	0 10	\$ - \$ 4,062.11	\$ -	\$ 654,000.00	\$ 327,000.00	\$ - \$ 109,000.00	\$ - \$ 1,090,000.00
S1-B10	Supply and Installation of Bridge - 13 m	EA	1	\$ 528.07	\$ 14,170.00		\$ 42,510.00	\$ 141,700.00	\$ 141,700.00
S1-B12	Supply and Installation of Bridge - 14 m	EA	0	\$ -	\$ -		\$ -	\$ -	\$ -
S1-B13 S1-B14	Supply and Installation of Bridge - 15 m Supply and Installation of Bridge - 16 m	EA EA	0	\$ - \$ -	\$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -
S1-B15	Supply and Installation of Bridge - 25 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B16	Supply and Installation of Bridge - 35 m	EA	1	\$ 1,421.74	\$ 38,150.00	\$ 228,900.00	\$ 114,450.00	\$ 381,500.00	\$ 381,500.00
S1-B17 S1-B18	Supply and Installation of Bridge - 50 m Supply and Installation of Bridge - 60 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -
S1-B18	Supply and Installation of Bridge - 65 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B20	Installation of Corduroy Road	LM	8,233	\$ 4,278.57	\$ 114,768.02		\$ 344,386.39	\$ 139.44	\$ 1,148,009.52
S1-B21 S1-B22	Installation of Access Road - Access Class 3 Installation of Access Road - Access Trail	KM KM	402	\$ 120,899.63 \$ 12,330.56	\$ 3,244,140.00 \$ 330,870.00		\$ 9,732,420.00 \$ 992,610.00	\$ 80,700.00 \$ 80,700.00	\$ 32,441,400.00 \$ 3,308,700.00
S1-B23	Installation of Access Road - Bypass Trail	KM	35	\$ 10,526.09	\$ 282,450.00	, , , , , , , , , , , , , , , , , , , ,	\$ 847,350.00	\$ 80,700.00	\$ 2,824,500.00
S1-B24	Installation of Access Road - Ice Bridge	LM	57	\$ 1,529.44	\$ 41,040.00				
	Sub-total (S1-Bx) : Rig			526,880.89	\$ 32,044,046.02	\$ 31,109,473.11	\$ 42,413,870.39	\$ 1,108,925.44	\$ 105,567,389.52
S1-B	Right-of-Way Clearing for Wood Pole Electro	de Line- Direct C	osts (S1-Bx)						
S1-B25	ROW Clearing	Ha	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B26	Removal of selected danger trees	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B27	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	LM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B28	Supply and Installation of Bridge - 3 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B29	Supply and Installation of Bridge - 4 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B30 S1-B31	Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 6 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-B32	Supply and Installation of Bridge - 7 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B33	Supply and Installation of Bridge - 8 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B34 S1-B35	Supply and Installation of Bridge - 10 m Supply and Installation of Bridge - 13 m	EA EA	0	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-B36	Supply and Installation of Bridge - 14 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B37	Supply and Installation of Bridge - 15 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -
S1-B38 S1-B39	Supply and Installation of Bridge - 16 m Supply and Installation of Bridge - 25 m	EA	0	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -
S1-B40	Supply and Installation of Bridge - 35 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B41 S1-B42	Supply and Installation of Bridge - 50 m Supply and Installation of Bridge - 60 m	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ -
S1-B42	Supply and Installation of Bridge - 65 m	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B44	Installation of Corduroy Road	LM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-B45 S1-B46	Installation of Access Road - Access Class 3 Installation of Access Road - Access Trail	KM KM	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-B40	Installation of Access Road - Access Trail	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	al (S1-Bx): Right-of-Way Clearing for Wood	Pole Electrode Lir	ne - Direct Costs	-	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C	Tower Foundation Construction (S1-Cx)								
	Guy Wire Anchors							1	
S1-C1	Installation of Guy Wire Anchor in soil as per design drawings and technical specification	LM	31,000	\$ 92,635.93	\$ 4,477,640.00	\$ 1,625,020.00	\$ 8,423,320.00	\$ 468.58	\$ 14,525,980.00
S1-C2	Installation of Guy Wire Anchor in rock as per design drawings and technical specification	LM	29,000	\$ 80,644.19	\$ 3,879,040.00	\$ 1,366,190.00	\$ 7,305,970.00	\$ 432.80	\$ 12,551,200.00
S1-C2	Testing of Guy Wire Anchor up to 550kN as per design drawings and	Ea	4,068	\$ 11,538.23	\$ 1,751,274.00	\$ -	\$ 2,614,747.68	\$ 1,073.26	\$ 4,366,021.68
S1-C2	technical specification Testing of Guy Wire Anchorup to 900kN as per design drawings and	Ea	208	\$ 589.96	\$ 89,544.00	¢	\$ 133,694.08	,	\$ 223,238.08
31502	technical specification Grillage Foundations	La	200	7 283.36	y 03,344.UU	· -	y 133,034.U8	7 1,073.26	۷ ۷۷۵,۷۵۵.۷8
S1-C3				\$ 1,204.39	\$ 139,230.45	\$ 3,922.25	\$ 163,781.85	\$ 10,583.95	\$ 306,934.55
<u> </u>	Assembly and Installation of Foundation Types A1-1 (100 kPa) as per	EA	29					10,303.33	, 555,557.55
C4 C4	Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per				. ,		ć	ė	.
S1-C4	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2.	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-C4 S1-C5	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3.				. ,	\$ -	\$ - \$ 155,773.42	'	\$ - \$ 291,819.22
	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4.	EA	0	\$ -	\$ -	\$ -		'	·
S1-C5	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per	EA EA	0 22	\$ - \$ 1,145.16	\$ - \$ 132,018.26	\$ - \$ 4,027.54 \$ -	\$ 155,773.42 \$ -	\$ 13,264.51 \$ -	\$ 291,819.22 \$ -
S1-C5 S1-C6	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B1.	EA EA	0 22 0	\$ - \$ 1,145.16 \$ -	\$ - \$ 132,018.26 \$ -	\$ - \$ 4,027.54 \$ -	\$ 155,773.42 \$ -	\$ 13,264.51 \$ -	\$ 291,819.22 \$ -
\$1-C5 \$1-C6 \$1-C7 \$1-C8	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types B2.	EA EA EA EA	0 22 0 2	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ -	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ -	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ -	\$ 13,264.51 \$ - \$ 18,544.58 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ -
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1.	EA EA EA EA EA EA	0 22 0 2 0 164	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08
\$1-C5 \$1-C6 \$1-C7 \$1-C8	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1.	EA EA EA EA	0 22 0 2	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ -	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ -	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ -	\$ 13,264.51 \$ - \$ 18,544.58 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ -
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3.	EA EA EA EA EA EA	0 22 0 2 0 164	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9 \$1-C10	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa	EA EA EA EA EA EA	0 22 0 2 0 164	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20 \$ -	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64 \$ -	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04 \$ -	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08 \$ -
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9 \$1-C10	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3.	EA EA EA EA EA EA EA EA	0 22 0 2 0 164 0	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20 \$ - \$ 3,997.51	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64 \$ - \$ 458,796.91	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ - \$ 9,900.22 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04 \$ - \$ 544,876.31 \$ -	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ - \$ 8,376.64 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08 \$ - \$ 1,013,573.44 \$ -
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11 \$1-C12	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B4-1A (250 kPa	EA EA EA EA EA EA EA EA EA EA EA EA	0 22 0 2 0 164 0 121 0 14	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20 \$ - \$ 3,997.51 \$ - \$ 624.91	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64 \$ - \$ 458,796.91 \$ - \$ 71,529.22	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ - \$ 9,900.22 \$ - \$ 1,797.04	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04 \$ - \$ 544,876.31 \$ - \$ 85,200.22	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ - \$ 8,376.64 \$ - \$ 11,323.32	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08 \$ - \$ 1,013,573.44 \$ - \$ 158,526.48
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11 \$1-C12 \$1-C13	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1.	EA	0 22 0 2 0 164 0 121 0 14	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20 \$ - \$ 3,997.51 \$ - \$ 624.91 \$ -	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64 \$ - \$ 458,796.91 \$ - \$ 71,529.22 \$ -	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ - \$ 9,900.22 \$ - \$ 1,797.04 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04 \$ - \$ 544,876.31 \$ - \$ 85,200.22 \$ -	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ - \$ 8,376.64 \$ - \$ 11,323.32 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08 \$ - \$ 1,013,573.44 \$ - \$ 158,526.48 \$ -
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11 \$1-C12	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types B2.	EA EA EA EA EA EA EA EA EA EA EA EA	0 22 0 2 0 164 0 121 0 14	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20 \$ - \$ 3,997.51 \$ - \$ 624.91 \$ - \$ 7,354.02	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64 \$ - \$ 458,796.91 \$ - \$ 71,529.22 \$ - \$ 907,390.08	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ - \$ 9,900.22 \$ - \$ 1,797.04 \$ - \$ 21,968.64	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04 \$ - \$ 544,876.31 \$ - \$ 85,200.22 \$ - \$ 992,393.28	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ - \$ 8,376.64 \$ - \$ 11,323.32 \$ - \$ 20,018.25	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08 \$ - \$ 1,013,573.44 \$ - \$ 158,526.48 \$ - \$ 1,921,752.00
\$1-C5 \$1-C6 \$1-C7 \$1-C8 \$1-C9 \$1-C10 \$1-C11 \$1-C12 \$1-C13	Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-42DD-0034 for Tower Types B2. Assembly and Installation of Foundation Types B2-1 (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A3. Assembly and Installation of Foundation Types B3-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A4. Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B1. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B2. Assembly and Installation of Foundation Types B2-1A (250 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types B3.	EA	0 22 0 2 0 164 0 121 0 14	\$ - \$ 1,145.16 \$ - \$ 145.95 \$ - \$ 5,277.20 \$ - \$ 3,997.51 \$ - \$ 624.91 \$ -	\$ - \$ 132,018.26 \$ - \$ 16,678.66 \$ - \$ 624,021.64 \$ - \$ 458,796.91 \$ - \$ 71,529.22 \$ -	\$ - \$ 4,027.54 \$ - \$ 523.14 \$ - \$ 10,102.40 \$ - \$ 9,900.22 \$ - \$ 1,797.04 \$ -	\$ 155,773.42 \$ - \$ 19,887.36 \$ - \$ 717,641.04 \$ - \$ 544,876.31 \$ - \$ 85,200.22 \$ -	\$ 13,264.51 \$ - \$ 18,544.58 \$ - \$ 8,242.47 \$ - \$ 8,376.64 \$ - \$ 11,323.32 \$ -	\$ 291,819.22 \$ - \$ 37,089.16 \$ - \$ 1,351,765.08 \$ - \$ 1,013,573.44 \$ - \$ 158,526.48 \$ -



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Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Eq	uipment(\$)	Material (\$)		Labour(\$)	Total Unit Price(\$)	Sub	ototal Price (\$)
S1-C17	Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types D1.	EA	112	\$ 11,015.93	\$	1,326,293.92	\$ 33,958.40	\$	1,491,470.40	\$ 25,461.81	\$	2,851,722.72
S1-C18	Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types D2.	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C19	Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42DD-0003 for Tower Types E1.	EA	20	\$ 2,310.91	\$	281,321.60	\$ 7,346.40	\$	312,378.20	\$ 30,052.31	\$	601,046.20
S1-C20	Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification for Tower Types C1, or D2, or E1.	EA	6	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C21	Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per technical specification for Tower Types C1, or D2,	EA	6	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
	or E1. Rock Foundations											
S1-C22	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573- 4622-42DD-0074 for Tower Type A1	EA	211	\$ 17,188.88	\$	1,881,280.22	\$ 241,765.91	\$	2,312,621.19	\$ 21,022.12	\$	4,435,667.32
S1-C23	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573- 4622-42DD-0074 for Tower Type A2	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C24	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0074 for Tower Type A3	EA	154	\$ 12,545.44	\$	1,373,067.08	\$ 176,454.74	\$	1,687,884.66	\$ 21,022.12	\$	3,237,406.48
S1-C25	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- 4622-42DD-0074 for Tower Type A4 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C26	4622-42DD-0074 for Tower Type B1 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-	EA	19	\$ 1,807.23		193,781.95	•		242,809.17	\$ 24,657.53	\$	468,493.07
S1-C27	4622-42DD-0026 for Tower Type B2	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C28	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A1 (Weak Surface Rock)	EA	18	\$ 1,083.25	\$	119,734.20	\$ 16,453.98	\$	145,625.40	\$ 15,656.31	\$	281,813.58
S1-C29	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A2 (Weak Surface Rock)	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573									<u> </u> .	 	
S1-C30	4622-42DD-0058 for Tower Type A3 (Weak Surface Rock)	EA	14	\$ 878.55	\$	96,266.38	\$ 17,418.94	\$	117,730.76	\$ 16,529.72	\$	231,416.08
S1-C31	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A4 (Weak Surface Rock)	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C32	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-	EA	3	\$ 197.39	٠.	21,443.46	\$ 4,875.27	ć	26,362.53	\$ 17,560.42	,	52,681.26
31-C32	4622-42DD-0058 for Tower Type B1 (Weak Surface Rock)	EA	,	3 137.33	· ·	21,443.40	3 4,073.27	3	20,302.33	3 17,300.42	٠	32,081.20
S1-C33	Assembly and Installation of Foundation Type A1-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A1 (Sound Surface Rock)	EA	159	\$ 8,618.39	\$	941,466.03	\$ 145,343.49	\$	1,157,276.73	\$ 14,113.75	\$	2,244,086.25
S1-C34	Assembly and Installation of Foundation Type A2-2 as per Dwg 505573	EA	0	\$ -	\$	_	\$ -	\$		\$ -	\$	-
	4622-42DD-0058 for Tower Type A2 (Sound Surface Rock) Assembly and Installation of Foundation Type A3-2 as per Dwg 505573.			<u> </u>	•						\vdash	
S1-C35	Assembly and Installation of Foundation Type A3-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A3 (Sound Surface Rock)	EA	117	\$ 6,642.83	\$	719,015.31	\$ 145,572.57	\$	888,908.67	\$ 14,987.15	\$	1,753,496.55
S1-C36	Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A4 (Sound Surface Rock)	EA	0	\$ -	\$		\$ -	\$		\$ -	\$	-
	Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-					-				l .	<u> </u>	
S1-C37	4622-42DD-0058 for Tower Type B1 (Sound Surface Rock) Assembly and Installation of Foundation Type B2-2 as per Dwg 505573	EA	15	\$ 897.31	\$	96,256.20	\$ 24,376.35	\$	119,635.35	\$ 16,017.86	\$	240,267.90
S1-C38	Assembly and Installation of Foundation Type 82-2 as per Dwg 303373 4622-42DD-0026 for Tower Type B2 (surface rock) Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-	EA	0	\$ -	\$		\$ -	\$		\$ -	\$	-
S1-C39	4622-42DD-0026 for Tower Type C1 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-	EA	104	\$ 14,826.28	-	1,562,782.00			2,002,166.40	\$ 35,954.22	\$	3,739,238.88
S1-C40 S1-C41	4622-42DD-0026 for Tower Type C2 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573	EA EA	124	\$ -	\$	1,893,689.56	\$ 207,807.88	\$	2,440,543.20	\$ 36,629.36	\$ c	4,542,040.64
S1-C41	4622-42DD-0026 for Tower Type D1 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573	EA	0	\$ -	\$		\$ -	\$	-	\$ 30,029.30	\$	-
S1-C43	4622-42DD-0026 for Tower Type D2 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-	EA	24	\$ 3,530.09		369,192.48		-	477,056.16	\$ 36,936.23	Ś	886,469.52
S1-C44	4622-42DD-0026 for Tower Type E1 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-	EA	84	\$ 11,975.08	÷	1,2 62,247.00			1,617,134.40	\$ 35,954.22		3,020,154.48
S1-C45	4622-42DD-0026 for Tower Type C1 (surface rock) Assembly and Installation of Foundation Type C2-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type C2 (surface rock)	EA	0	\$ -	\$		\$ -	\$	-	\$ -	\$	-
S1-C46	Assembly and Installation of Foundation Type D1-2 as per Dwg 505573 4622-42DD-0026 for Tower Type D1 (surface rock)	EA	104	\$ 15,149.95	\$	1,588,255.76	\$ 174,290.48	\$	2,046,907.20	\$ 36,629.36	\$	3,809,453.44
S1-C47	Assembly and Installation of Foundation Type D2-2 as per Dwg 505573 4622-42DD-0026 for Tower Type D2 (surface rock)	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C48	Assembly and Installation of Foundation Type E1-2 as per Dwg 505573- 4622-42DD-0026 for Tower Type E1 (surface rock)	EA	20	\$ 2,941.75	\$	307,660.40	\$ 33,517.40	\$	397,546.80	\$ 36,936.23	\$	738,724.60
S1-C49	Installation and Testing of 25M Mechanical Rock Anchor as per design drawings and technical specification	LM	12,924	\$ 15,101.07	\$	1,365,679.08	\$ 273,213.36	\$	1,977,242.76	\$ 279.80	\$	3,616,135.20
S1-C50	Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical specification Installation and Testing of 32M Mechanical Rock Anchor as per design	LM	870	\$ 1,061.16	\$	96,804.90	\$ 23,898.90	\$	139,243.50	\$ 298.79	\$	259,947.30
S1-C51	drawings and technical specification Installation and Testing of 43M Mechanical Rock Anchor as per design	LM	0	\$ -			\$ -		-	\$ -	\$	-
S1-C52	drawings and technical specification Installation and Testing of 57M Mechanical Rock Anchor as per design	LM	22,104	\$ 32,247.43		2,873,962.08			4,197,107.52	\$ 361.32	\$	7,986,617.28
S1-C53 S1-C54	drawings and technical specification Installation and Testing of 64M Mechanical Rock Anchor as per d <mark>esign</mark>	LM	45	\$ -		6,877.35	\$ - \$ 3,081.60	\$	10,110.15	\$ 445.98	ç	20,069.10
31 634	drawings and technical specification H-Pile Foundations	LIVI	43	76.09	,	0,877.33	3,001.00	,	10,110.13	3 443.30	,	20,009.10
S1-C55	Design, Assembly and Installation of Foundation Type A1-3 as per Dwg 505573-4622-42DD-0037 for Tower Type A1 including supply and	EA	6	\$ 1,170.00	\$	96,322.74	\$ 84,509.82	\$	103,893.96	\$ 47,454.42	\$	284,726.52
C1 CEC	installation of steep cap. Design, Assembly and Installation of Foundation Type A2-3 as per Dwg			ŕ	<u>,</u>			,		ć	_	
S1-C56	505573-4622-42DD-0037 for Tower Type A2 including supply and installation of steep cap. Design, Assembly and Installation of Foundation Type A3-3 as per Dwg	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	>	-
S1-C57	505573-4622-42DD-0037 for Tower Type A3 including supply and installation of steep cap.	EA	5	\$ 975.00	\$	80,268.95	\$ 70,424.85	\$	86,578.30	\$ 47,454.42	\$	237,272.10
S1-C58	Design, Assembly and Installation of Foundation Type A4-3 as per Dwg 505573-4622-42DD-0037 for Tower Type A4 including supply and	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
<u> </u>	installation of steep cap. Design, Assembly and Installation of Foundation Type B1-3 as per Dwg										H	
S1-C59	505573-4622-42DD-0037 for Tower Type B1 including supply and installation of steep cap. Design, Assembly and Installation of Foundation Type B2-3 as per Dwg	EA	1	\$ 195.00	\$	16,053.79	\$ 14,084.97	\$	17,315.66	\$ 47,454.42	Ş	47,454.42
S1-C60	Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DD-0046 for Tower Type B2 including supply and installation of steep cap.	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C61	Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DD-0046 for Tower Type C1 including supply and	EA	4	\$ 4,024.00	\$	287,390.28	\$ 263,639.80	\$	311,858.44	\$ 215,722.13	\$	862,888.52
	installation of steel cap. Design, Assembly and Installation of Foundation Type C2-3 as per Dwg										H	
S1-C62	505573-4622-42DD-0046 for Tower Type C2 including supply and installation of steel cap. Design, Assembly and Installation of Foundation Type D1-3 per Dwg	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C63	Design, Assembly and Installation of Foundation Type D1-3 per Dwg 505573-4622-42DD-0046 for Tower Type D1 including supply and installation of steel cap.	EA	4	\$ 4,024.00	\$	287,390.28	\$ 263,639.80	\$	311,858.44	\$ 215,722.13	\$	862,888.52
S1-C64	Design, Assembly and installation of Foundation Type D2-3 as per Dwg 505573-4622-42DD-0046 for Tower Type D2 including supply and	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
	installation of steel cap. Design, Assembly and Installation of Foundation Type E1-3 as per Dwg										 	
S1-C65	505573-4622-42DD-0046 for Tower Type E1 including supply and installation of steel cap.	EA	0	\$ -	\$	-	\$ -	\$	-	\$ -	\$	-
S1-C66	Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings and technical specifications (length in bog not considered)	LM	480	\$ 1,434.36	\$	69,331.20	\$ 25,161.60	\$	130,425.60	\$ 468.58	\$	224,918.40
S1-C67	Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT	LM	2,400	\$ 2,928.00	\$	299,472.00	\$ 787,464.00	\$	306,720.00	\$ 580.69	\$	1,393,656.00
	Bog and Poor Soil Supply and Installation of Cribs for excavation protection of tower										Г	
S1-C68	types A1, A2, A3, A4, B1, B2, C1, C2, D1, D2, E1 for any type of Foundation as per Dwg 505573-4622-42DD-0069 and 505573-4622-42DD-0071	M2	10,700	\$ 25,359.00	\$	2,915,750.00	\$ 2,721,759.00	\$	3,494,406.00	\$ 853.45	\$	9,131,915.00
65.53	Earthwork		* ***	A		70.000	^	_	FO FOR 5	<u> </u>		422.000
S1-C69 S1-C70	Transportation of native backfill Supply and transportation of approved fill from an alternate	M3 * KM	2,000	\$ 444.44 \$ 8,895.83		74,040.00 1,001,910.00	\$ - \$ 1,086,750.00	\$ \$	58,760.00 914,970.00			132,800.00 3,003,630.00
S1-C71	source/processed material/road gravel Rock blasting/preparation	M3	1,100	\$ 6,600.00		808,038.00		\$	896,368.00			1,704,406.00



	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
				427,239.32	\$ 35,019,389,42	\$ 11,192,994.81	\$ 48,849,759.03	\$ 1,106,230.84	\$ 99,651,403.02
	Sub-total (S1-Cx)	: Tower Foundati	on Construction	427,233.32	3 33,019,369.42	3 11,132,334.81	3 48,843,733.03	3 1,100,230.84	3 33,031,403.02
	wer Assembly and Erection (S1-Dx)								
Assemb	embly and Erection of Suspension Tower Type "A1" mbly and Erection of Suspension Tower Type "A1 + 0" as per dwg.			T .				1.	I .
51-D1 505573	573-4622-43DD-0042	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D2 dwg. 50	mbly and Erection of Suspension Tower Type "A1 + 1.5" as per .505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	mbly and Erection of Suspension Tower Type "A1 + 3" as per .505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	mbly and Erection of Suspension Tower Type "A1 + 4.5" as per .505573-4622-43DD-0042	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D5 Assemb	mbly and Erection of Suspension Tower Type "A1 + 6" as per	EA	88	\$ 27,437.10	\$ 1,942,103.68	\$ -	\$ 3,849,739.52	\$ 65,816.40	\$ 5,791,843.20
	. 505573-4622-43DD-0042 mbly and Erection of Suspension Tower Type "A1 + 7.5" as per	EA	39	\$ 12,339.84		•	\$ 1,731,530.19		
dwg. 50	.505573-4622-43DD-0042 mbly and Erection of Suspension Tower Type "A1 + 9" as per			•		•			
S1-D7 dwg. 50	505573-4622-43DD-0042 mbly and Erection of Suspension Tower Type "A1 + 10.5" as per	EA	45	\$ 14,401.45	\$ 1,017,337.50	\$ -	\$ 2,020,913.55	\$ 67,516.69	\$ 3,038,251.05
S1-D8 dwg. 50	505573-4622-43DD-0042	EA	56	\$ 18,311.76	\$ 1,544,532.64	\$ -	\$ 2,316,798.96	\$ 68,952.35	\$ 3,861,331.60
	mbly and Erection of Suspension Tower Type "A1 + 12" as per .505573-4622-43DD-0042	EA	57	\$ 18,827.16	\$ 1,587,650.64	\$ -	\$ 2,381,475.39	\$ 69,633.79	\$ 3,969,126.03
	mbly and Erection of Suspension Tower Type "A1 + 13.5" as per .505573-4622-43DD-0042	EA	63	\$ 21,100.08	\$ 1,485,482.04	\$ -	\$ 2,961,466.83	\$ 70,586.49	\$ 4,446,948.87
S1-D11 Assemb	mbly and Erection of Suspension Tower Type "A1 + 15" as per .505573-4622-43DD-0042	EA	81	\$ 27,502.97	\$ 1,934,328.60	\$ -	\$ 3,860,344.17	\$ 71,539.17	\$ 5,794,672.77
S1-D12 Assemb	mbly and Erection of Suspension Tower Type "A1 + 16.5" as per	EA	77	\$ 26,424.01	\$ 1,857,025.17	\$ -	\$ 3,709,056.12	\$ 72,286.77	\$ 5,566,081.29
dwg. 50	.505573-4622-43DD-0042 mbly and Erection of Suspension Tower Type "A1 + 18" as per			,	. , ,	•			, , ,
	.505573-4622-43DD-0042 embly and Erection of Suspension Tower Type "A2"	EA	80	\$ 27,746.17	\$ 1,948,473.60	\$ -	\$ 3,894,805.60	\$ 73,040.99	\$ 5,843,279.20
S1-D14 Assemb	mbly and Erection of Suspension Tower Type "A2 + 0" as per dwg.	EA	0	\$ -	\$ -	\$ -	\$ -	ė .	\$ -
505573	i73-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 1.5" as per			•	•		•	4	·
dwg. 50	505573-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 3" as per	EA	0	\$ -	\$ -	\$ -	\$ -	> -	\$ -
S1-D16 dwg. 50	505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D17 dwg. 50	mbly and Erection of Suspension Tower Type "A2 + 4.5" as per 505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	mbly and Erection of Suspension Tower Type "A2 + 6" as per .505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D19 Assemb	505573-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 7.5" as per .505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D20 Assemb	mbly and Erection of Suspension Tower Type "A2 + 9" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
dwg. 50	.505573-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 10.5" as per							ć	
S1-D21 dwg. 50	.505573-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 12" as per	EA	0	\$ -	\$ -	\$ -	\$ -	÷ -	\$ -
31-D22 dwg. 50	. 505573-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 13.5" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D23 dwg. 50	505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$1-1)/4	mbly and Erection of Suspension Tower Type "A2 + 15" as per . 505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$1-1)25	mbly and Erection of Suspension Tower Type "A2 + 16.5" as per .505573-4622-43DD-0044	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D26 Assemb	mbly and Erection of Suspension Tower Type "A2 + 18" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
dwg. 50	. 505573-4622-43DD-0044 mbly and Erection of Suspension Tower Type "A2 + 19.5" as per	EA	0	\$ -		\$ -	\$ -	ć	\$ -
dwg. 50	. 505573-4622-43DD-0044 embly and Erection of Suspension Tower Type "A3"	EA	0	3	, -	3 -	-	, -	٠ -
S1-D28 Assemb	mbly and Erection of Suspension Tower Type "A3 + 0" as per dwg.	EA	110	\$ 35,385.30	\$ 2,501,593.60	\$ -	\$ 4,960,503.90	\$ 67,837.25	\$ 7,462,097.50
505573	i73-4622-43DD-0050 mbly and Erection of Suspension Tower Type "A3 + 1.5" as per	EA	20	\$ 6,581.30			\$ 922,711.00	\$ 69,358.91	\$ 1,387,178.20
dwg. 50	.505573-4622-43DD-0050 mbly and Erection of Suspension Tower Type "A3 + 3" as per		A				· ,		
51-D30 dwg. 50	505573-4622-43DD-0050	EA	29	\$ 9,671.31	\$ 681,857.28	\$ -	\$ 1,356,028.11	\$ 70,271.91	\$ 2,037,885.39
51-D31 dwg. 50	mbly and Erection of Suspension Tower Type "A3 + 4.5" as per .505573-4622-43DD-0050	EA	35	\$ 11,930.60	\$ 839,787.20	\$ -	\$ 1,672,987.75	\$ 71,793.57	\$ 2,512,774.95
\$1-1137	mbly and Erection of Suspension Tower Type "A3 + 6" as per .505573-4622-43DD-0050	EA	44	\$ 15,059.18	\$ 1,059,694.24	\$ -	\$ 2,111,740.40	\$ 72,078.06	\$ 3,171,434.64
S1-D33	mbly and Erection of Suspension Tower Type "A3 + 7.5" as per .505573-4622-43DD-0050	EA	45	\$ 15,674.35	\$ 1,101,586.95	\$ -	\$ 2,198,194.20	\$ 73,328.47	\$ 3,299,781.15
S1-D34 Assemb	mbly and Erection of Suspension Tower Type "A3 + 9" as per	EA	30	\$ 10,560.28	\$ 741,615.30	\$ -	\$ 1,481,063.70	\$ 74,089.30	\$ 2,222,679.00
	.505573-4622-43DD-0050 mbly and Erection of Suspension Tower Type "A3 + 10.5" as per	EA	32	\$ 11,523.07			\$ 1,616,266.56		\$ 2,424,208.32
dwg. 50 Assemb	. 505573-4622-43DD-0050 mbly and Erection of Suspension Tower Type "A3 + 12" as per								
51-D36 dwg. 50	.505573-4622-43DD-0050 mbly and Erection of Suspension Tower Type "A3 + 13.5" as per	EA	24	\$ 8,706.99	\$ 610,177.68	\$ -	\$ 1,221,316.32	\$ 76,312.25	\$ 1,831,494.00
51-D37 dwg. 50	. 505573-4622-43DD-0050	EA	22	\$ 8,114.84	\$ 568,036.04	\$ -	\$ 1,138,342.48	\$ 77,562.66	\$ 1,706,378.52
	mbly and Erection of Suspension Tower Type "A3 + 15" as per .505573-4622-43DD-0050	EA	27	\$ 10,122.88	\$ 707,820.39	\$ -	\$ 1,420,132.50	\$ 78,813.07	\$ 2,127,952.89
\$1-1139	mbly and Erection of Suspension Tower Type "A3 + 16.5" as per .505573-4622-43DD-0050	EA	13	\$ 4,922.37	\$ 343,959.98	\$ -	\$ 690,586.65	\$ 79,580.51	\$ 1,034,546.63
Assen	embly and Erection of Suspension Tower Type "A4"							1	
	mbly and Erection of Suspension Tower Type "A4 + 0" as per dwg. i73-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$1-1)41	mbly and Erection of Suspension Tower Type "A4 + 1.5" as per .505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D42 Assemb	mbly and Erection of Suspension Tower Type "A4 + 3" as per .505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D43 Assemb	mbly and Erection of Suspension Tower Type "A4 + 4.5" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D44 Assemb	.505573-4622-43DD-0056 mbly and Erection of Suspension Tower Type "A4 + 6" as per	EA	0	\$ -	\$ -	\$ -	\$ -	s	Ś
dwg. 50	.505573-4622-43DD-0056 mbly and Erection of Suspension Tower Type "A4 + 7.5" as per				•	-	•	· ·	· ·
S1-D45 dwg. 50	.505573-4622-43DD-0056 mbly and Erection of Suspension Tower Type "A4 + 9" as per	EA	0	\$ -	\$ -	\$ -	\$ -	÷ -	, -
51-D46 dwg. 50	505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
51-D47 dwg. 50	mbly and Erection of Suspension Tower Type "A4 + 10.5" as per .505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$1-D4X	mbly and Erection of Suspension Tower Type "A4 + 12" as per . 505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D49 Assemb	mbly and Erection of Suspension Tower Type "A4 + 13.5" as per .505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D50 Assemb	mbly and Erection of Suspension Tower Type "A4 + 15" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D51 Assemb	.505573-4622-43DD-0056 mbly and Erection of Suspension Tower Type "A4 + 16.5" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
dwg. 50 Assemb	.505573-4622-43DD-0056 mbly and Erection of Suspension Tower Type "A4 + 18" as per				•	•	•	·	'
S1-D52 dwg. 50	.505573-4622-43DD-0056 mbly and Erection of Suspension Tower Type "A4 + 19.5" as per	EA	0				\$ -	÷ -	\$ -
51-D53 dwg. 50	.505573-4622-43DD-0056	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Assemb	embly and Erection of Suspension Tower Type "B1" mbly and Erection of Suspension Tower Type "B1 + 0" as per dwg.			<u> </u>	<u> </u>	<u> </u>	^	I c	ć
51-D54 505573	ir3-4622-43DD-0002 mbly and Erection of Suspension Tower Type "B1 + 1.5" as per	EA	0		\$ -	\$ -	\$ -	\$ -	\$ -
51-D55 dwg. 50	505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
51-D56 dwg. 50	mbly and Erection of Suspension Tower Type "B1 + 3" as per . 505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D57 Assemb	mbly and Erection of Suspension Tower Type "B1 + 4.5" as per .505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D58 Assemb	mbly and Erection of Suspension Tower Type "B1 + 6" as per	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
dwg. 50 Assemb	505573-4622-43DD-0002 mbly and Erection of Suspension Tower Type "B1 + 7.5" as per	EA	0	\$ -	\$ -		\$ -	\$ -	\$ -
dwg. 50	.505573-4622-43DD-0002 mbly and Erection of Suspension Tower Type "B1 + 9" as per				•			<u> </u>	'
S1-D60 dwg. 50	. 505573-4622-43DD-0002 mbly and Erection of Suspension Tower Type "B1 + 10.5" as per	EA	0		•		\$ -	\$ -	\$ -
S1-D61 dwg. 50	505573-4622-43DD-0002	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
dwg. 50	mbly and Erection of Suspension Tower Type "B1 + 12" as per .505573-4622-43DD-0002	EA	11	\$ 7,246.27	\$ 495,996.27	\$ -	\$ 1,018,437.31	\$ 137,675.78	\$ 1,514,433.58
	mbly and Erection of Suspension Tower Type "B1 + 13.5" as per .505573-4622-43DD-0002	EA	2	\$ 1,359.70	\$ 93,338.50	\$ -	\$ 191,017.06	\$ 142,177.78	\$ 284,355.56
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Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-D64	Assembly and Erection of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002	EA	3	\$ 2,075.94	\$ 142,382.25	\$ -	\$ 291,653.52	\$ 144,678.59	\$ 434,035.77
S1-D65	Assembly and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43DD-0002	EA	5	\$ 3,513.81	\$ 240,821.55	\$ -	\$ 493,686.20	\$ 146,901.55	\$ 734,507.75
S1-D66	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002	EA	3	\$ 2,140.73	\$ 146,609.88	\$ -	\$ 300,783.48	\$ 149,131.12	\$ 447,393.36
S1-D67	Assembly and Erection of Suspension Tower Type "B1 + 19.5" as per	EA	2	\$ 1,469.70	\$ 100,516.44	\$ -	\$ 206,518.50	\$ 153,517.47	\$ 307,034.94
S1-D68	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 21" as per	EA	3	\$ 2,264.00	\$ 155,259.45	\$ -	\$ 318,005.04	\$ 157,754.83	\$ 473,264.49
S1-D69	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 22.5" as per	EA	4	\$ 3,072.32		·	\$ 431,567.52		\$ 642,081.12
\$1-D70	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 24" as per	EA	3	\$ 2,386.73	· · · ·	· .	\$ 335,002.32		\$ 499,482.60
S1-D71	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per	EA	0	\$ 2,386.73	\$ -	\$ -	\$ 333,002.32	\$ 100,434.20	\$ 499,462.00
	dwg. 505573-4622-43DD-0002 Assembly and Erection of Suspension Tower Type "B1 + 27" as per				•	•	·	<u>'</u>	*
S1-D72	dwg. 505573-4622-43DD-0002 Assembly and Erection of Medium Angle Tower Type "B2"	EA	16	\$ 13,095.84	\$ 901,148.96	\$ -	\$ 1,838,338.40	\$ 171,217.96	\$ 2,739,487.36
S1-D73	Assembly and Erection of Medium Angle Tower Type "B2" Basic Body	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D74	as per dwg. 505573-4622-43DD-0058 Assembly and Erection of +4.5 m body extension for Medium Angle	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D75	Tower Type "B2" as per dwg. 505573-4622-43DD-0058 Assembly and Erection of +10.5 m body extension for Medium Angle	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D76	Tower Type "B2" as per dwg. 505573-4622-43DD-0058 Assembly and Erection of +0 m leg extension for Medium Angle Tower	EA	0	\$ -	\$ -	\$ -	\$ -	, \$ -	\$ -
	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +1.5 m leg extension for Medium Angle				·		•		
S1-D77	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D78	Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D79	Assembly and Erection of +4.5 m leg extension for Medium Angle	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower		_	·	·	<u> </u>	·		
S1-D80	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D81	Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	EA	0	\$ -	\$ -	\$	\$ -	\$ -	\$ -
S1-D82	Assembly and Erection of +9 m leg extension for Medium Angle Tower	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Type "B2" as per dwg. 505573-4622-43DD-0058, per leg Assembly and Erection of Medium Angle Tower Type "C1"								
S1-D83	Assembly and Erection of Medium Angle Tower Type "C1" Basic Body as per dwg. 505573-4622-43DD-0004	EA	72	\$ 53,070.89	\$ 4,090,625.28	\$ -	\$ 7,490,178.72	\$ 160,844.50	\$ 11,580,804.00
S1-D84	Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	EA	14	\$ 2,066.87	\$ 151,061.26	\$ -	\$ 291,876.76	\$ 31,638.43	\$ 442,938.02
S1-D85	Assembly and Frection of +10.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	EA	15	\$ 4,123.14	\$ 303,590.55	\$ -	\$ 582,382.05	\$ 59,064.84	\$ 885,972.60
S1-D86	Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D87	Assembly and Erection of +1.5 m leg extension for Medium Angle	EA	0	4	4	s	\$	ς.	¢
31-087	Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	LA	U	÷ -	, -	,	, <u>-</u>	· -	7
S1-D88	Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	68	\$ 1,717.94	\$ 125,559.96	\$ -	\$ 242,602.92	\$ 5,414.16	\$ 368,162.88
S1-D89	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	24	\$ 752.46	\$ 54,995.04	\$ -	\$ 106,259.76	\$ 6,718.95	\$ 161,254.80
S1-D90	Assembly and Erection of +6 m leg extension for Medium Angle Tower	EA	60	\$ 2,3 29.48	\$ 170,254.80	\$ -	\$ 328,962.00	\$ 8,320.28	\$ 499,216.80
	Type "C1" as per dwg. 505573-4622-43DD-0004, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle						· · ·	,	
S1-D91	Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	68	\$ 3,085.45	\$ 225,507.04	\$ -	\$ 435,718.84	\$ 9,723.91	\$ 661,225.88
S1-D92	Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	EA	68	\$ 3,758.37	\$ 274,689.40	\$ -	\$ 530,746.80	\$ 11,844.65	\$ 805,436.20
	Assembly and Erection of Medium Angle Tower Type "C2" Assembly and Erection of Medium Angle Tower Type "C2" Basic Body							I .	Ι.
S1-D93	as per dwg. 505573-4622-43DD-0012 Assembly and Erection of +4.5 m body extension for Medium Angle	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D94	Tower Type "C2" as per dwg. 505573-4622-43DD-0012 Assembly and Erection of +10.5 m body extension for Medium Angle	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D95	Tower Type "C2" as per dwg. 505573-4622-43DD-0012 Assembly and Erection of +0 m leg extension for Medium Angle Tower	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D96	Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D97	Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D98	Assembly and Erection of +3 m leg extension for Medium Angle Tower								
		EA	0	5 -	\$ -	\$ -	\$ -	\$ -	\$ -
	Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +4.5 m leg extension for Medium Angle	EA			\$ -		•		\$ -
S1-D99	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA EA	0	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
S1-D99 S1-D100	Assembly and Erection of +4.5 m leg extension for Medium Angle	EA			\$ - \$ - \$ -		•		
	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D100 S1-D101	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower	EA EA EA	0 0	\$ - \$ - \$	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ -	\$ - \$ -
S1-D100 S1-D101 S1-D102	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	EA EA	0	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	\$ -
S1-D100 S1-D101 S1-D102	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as	EA EA EA	0 0	\$ - \$ - \$	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ -
S1-D100 S1-D101 S1-D102	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Pead-End Tower Type "D1" Assembly and Erection of Pead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower	EA EA EA EA	0 0 0	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 5,505,540.26	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 5	\$ - \$ - \$ -
\$1-D100 \$1-D101 \$1-D102 \$1-D103	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043	EA EA EA EA	0 0 0 0	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 10,091,421.46	\$ - \$ - \$ - \$ - \$ 37,382.37	\$ - \$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043	EA EA EA EA EA EA	0 0 0 0 0 86 25	\$ - \$ - \$ - \$ - \$ 5 \$ 4,360.90	\$ - \$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50	\$ - \$ - \$ - \$ - \$ 37,382.37	\$ - \$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower	EA EA EA EA EA EA EA	0 0 0 0 86 25	\$ - \$ - \$ - \$ - \$ - \$ 4,360.90 \$ 8,417.38 \$ -	\$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75 \$ 615,202.00 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ -	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ -	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ -	\$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75 \$ 615,202.00 \$ - \$ -	\$ - \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ -	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ -	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ -
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ -	\$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75 \$ 615,202.00 \$ - \$ - \$ 5	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ 5,272.18	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ - \$ 442,863.12
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84	\$ - \$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ \$ \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ \$ 291,826.92 \$ 113,564.64	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ - \$ 5,272.18 \$ 7,180.84	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ - \$ 442,863.12 \$ 172,340.16
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D109	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 44.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84 24	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70	\$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75 \$ 615,202.00 \$ - \$ - \$ 151,036.20 \$ 58,775.52 \$ 266,527.68	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 44.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84 24 92	\$ - \$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043,	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84 24	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84 24 92	\$ - \$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of 10 bead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6.5 m leg extension for Dead-E	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84 24 92 60	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91	\$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75 \$ 615,202.00 \$ - \$ - \$ 151,036.20 \$ 58,775.52 \$ 266,527.68 \$ 207,031.20 \$ 384,578.88	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51 \$ 13,424.42	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of 9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5.5 m log extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per l	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 84 24 92 60 84	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91	\$ - \$ - \$ - \$ - \$ 5,505,540.26 \$ 318,725.75 \$ 615,202.00 \$ - \$ 151,036.20 \$ 58,775.52 \$ 266,527.68 \$ 207,031.20 \$ 384,578.88	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40 \$ - \$ -	\$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51 \$ 13,424.42	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0044, per leg Assembl	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 86 25 25 0 0 0 84 24 92 60 84	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40 \$ - \$ -	\$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51 \$ 13,424.42 \$ - \$ -	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Pead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Ty	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 0 86 25 25 0 0 84 24 92 60 84	\$ - \$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40 \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51 \$ 13,424.42 \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28 \$ - \$ - \$ - \$ -
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\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D114 \$1-D115 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D110	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assem	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 0 86 25 25 0 0 84 24 92 60 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,188,677.25	\$ - \$ - \$ \$ - \$ \$ \$ \$ \$	\$ - \$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
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\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D120 \$1-D121	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +6 m leg extension for Dea	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 0 86 25 25 0 0 84 24 92 60 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ 5,272.18 \$ 7,180.84 \$ 8,494.62 \$ 10,117.51 \$ 13,424.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
\$1-D100 \$1-D101 \$1-D102 \$1-D103 \$1-D104 \$1-D105 \$1-D106 \$1-D107 \$1-D108 \$1-D109 \$1-D110 \$1-D111 \$1-D112 \$1-D112 \$1-D113 \$1-D114 \$1-D115 \$1-D116 \$1-D117 \$1-D118 \$1-D119 \$1-D120 \$1-D121	Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg Assembly and Erection of Dead-End Tower Type "D1" Assembly and Erection of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +1.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per le	EA EA EA EA EA EA EA EA EA EA EA EA EA E	0 0 0 0 0 86 25 25 0 0 84 24 92 60 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ 71,493.82 \$ 4,360.90 \$ 8,417.38 \$ - \$ 2,066.51 \$ 804.18 \$ 3,646.70 \$ 2,832.66 \$ 5,261.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ 10,091,421.46 \$ 615,833.50 \$ 1,188,677.25 \$ - \$ 291,826.92 \$ 113,564.64 \$ 514,977.36 \$ 400,019.40 \$ 743,072.40 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,188,677.25	\$ - \$ 181,360.02 \$ 37,382.37 \$ 72,155.17 \$ - \$ \$ 7,180.84 \$ 8,494.62 \$ 10,117.51 \$ 13,424.42 \$ 5 - \$ \$ - \$ \$ - \$ \$ - \$ \$	\$ - \$ - \$ 15,596,961.72 \$ 934,559.25 \$ 1,803,879.25 \$ - \$ 442,863.12 \$ 172,340.16 \$ 781,505.04 \$ 607,050.60 \$ 1,127,651.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -



Item No.									
	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Equipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Subtotal Price (\$)
S1-D125	Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0007	EA	6	\$ 2,787.51	\$ 205,413.30	\$ -	\$ 393,481.08	\$ 99,815.73	\$ 598,894.38
S1-D126	Assembly and Erection of +0 m leg extension for Dead-End Tower	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +1.5 m leg extension for Dead-End Tower			,	•	•	•		\$ -
S1-D127	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +3 m leg extension for Dead-End Tower	EA	0	\$ -	\$ -	-	\$ -	\$ -	7
S1-D128	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-D129	Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	EA	32	\$ 2,007.09	\$ 146,692.48	\$ -	\$ 283,435.20	\$ 13,441.49	\$ 430,127.68
S1-D130	Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	EA	8	\$ 616.63	\$ 45,067.84	\$ -	\$ 87,078.88	\$ 16,518.34	\$ 132,146.72
S1-D131	Assembly and Erection of +7.5 m leg extension for Dead-End Tower	EA	4	\$ 357.86	\$ 26,155.12	\$ -	\$ 50,536.28	\$ 19,172.85	\$ 76,691.40
S1-D132	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg Assembly and Erection of +9 m leg extension for Dead-End Tower	EA	20	\$ 2,036.88	\$ 148,869.60	\$ -	\$ 287,641.80	\$ 21,825.57	\$ 436,511.40
31-0132	Type "E1" as per dwg. 505573-4622-43DD-0007, per leg	·Dx) : Tower Asse	l				· · ·		, ,
S1-E	Installation of Wires and OPGW (S1-Ex)	Dx): Tower Asser	indiy & Erection	574,673.52	\$ 41,980,709.07	\$ -	\$ 80,284,959.50	\$ 4,111,083.72	\$ 122,265,668.57
				40 -00 -0	4 1050 500 50		4 2 500 170 00		4 4 5 5 7 9 9 9 9
S1-E1	Installation of Counterpoise wire, connection with tower grounding	KM	470	\$ 18,787.57	\$ 1,969,422.20	\$ -	\$ 2,698,458.00	\$ 9,931.66	\$ 4,667,880.20
S1-E2	Installation of ground rods at crossing obstacles in soil and rock	EA	460	\$ 460.00	· ,		\$ 66,212.40		\$ 116,872.20
S1-E3	Tower Footing resistance measurement S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	EA	470	\$ 470.00	, , , , , , , , , , , , , , , , , , , ,		\$ 66,331.10	\$ 177.31	\$ 83,335.70
S1-E4	ACSR Conductor, complete for both poles	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S2-E4	S2 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, complete for both poles	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S3-E4	S3 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, complete for both poles	КМ	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S4-E4	S4 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	290	\$ 100,127.74	\$ 14,515,059.70	\$ -	\$ 14,270,572.30	\$ 99,260.80	\$ 28,785,632.00
S5-E4	ACSR Conductor, complete for both poles S5 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7	KM	180	\$ 56,119.68	\$ 8,141,812.20	\$ -	\$ 8,008,137.00	\$ 89,721.94	\$ 16,149,949.20
	ACSR Conductor, complete for both poles Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR						. , ,	3 03,721.34	, , ,
S1-E5	Grackle Conductor, complete for both electrodes Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR	KM	0	\$ -	\$ -	\$ -	\$ -	Ş -	\$ -
S1-E6	Falcon Conductor, complete for both electrodes	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-E7	Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR Grackle Conductor, complete for both electrodes	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-E8	Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR Falcon Conductor, complete for both electrodes	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-E9	Installation of ADSS on Wood Poles	KM	0	\$ -	\$ -	*	\$ -	\$ -	\$ -
S1-E10	ADSS splicing and tests including loss analysis	EA	0	\$ -	\$ -		\$ -	\$ -	\$ -
S1-E11 S1-E12	ADSS end to end test S1 - Installation of OPGW	LS KM	0	\$ - \$ -	\$ - \$ -		\$ - \$ -	\$ -	\$ - \$ -
S2-E12	S2 - Installation of OPGW	KM	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$3-E12	S3 - Installation of OPGW S4 - Installation of OPGW	KM KM	0 290	\$ - \$ 24,275.61	\$ -		\$ - \$ 3,334,066.20	\$ -	\$ - 5 6,847,706.20
	S4 - Installation of OPGW S5 - Installation of OPGW	KM	290 180		\$ 3,513,640. 00 \$ 2,115,745.2 0		\$ 3,334 ,066.20 \$ 2,008,990.80		
S1-E13	OPGW Continuity tests before and after stringing	LS	1	\$ 1,804.80	\$ 150,123.23	\$ -	\$ 213,778.70	\$ 363,901.93	\$ 363,901.93
S1-E14 S1-E15	OPGW splicing and tests including loss analysis OPGW end to end test	EA LS	100 1	\$ 4,000.00 \$ 192.00	\$ 339,139.00 \$ 15,970.56		\$ 511,249.00 \$ 22,742.42		
31-213		: Installation of V		_		\$ -	\$ 31,200,537.92		\$ 62,029,114.41
\$1-F	Miscellaneous Tower Attachments and Acce							, , , , , , , , , , , , , , , , , , , ,	, , , ,
S1-F1	Install 18" Aerial marker cones	EA	15	\$ 60.00	\$ 5, 231.55	\$ -	\$ 8,511.45	\$ 916.20	\$ 13,743.00
	Sub-total (S1-Fx) : Miscellaneous To	wer Attachment	and Accessories	60.00	\$ 5,231.55	\$ -	\$ 8,511.45	\$ 916.20	\$ 13,743.00
S1-G	Framing and Setting of Wood Poles (S1-Gx)								
S1-G1	Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 505573-4633-4ZDD-0011	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-G2	Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing 505573-4633-4ZDD-0012	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-G3	Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with Guys	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
S1-G4	as per Drawing 505573-4633-4ZDD-0020								
	Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as	FΛ	0	ė .	s -	ć _	ċ -	ė .	ė .
	per Drawing 505573-4633-4ZDD-0021	EA	0	\$ -	\$ -	•	\$ -	\$ -	\$ -
\$1-G5	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-4ZDD-0013	EA EA	0	\$ - \$ -	\$ - \$ -	-	s - s -	\$ - \$ -	\$ - \$ -
	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-4ZDD-0013 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing 505573-4633-4ZDD-0061	EA EA	0	\$ -	·	\$ -	•	<u>'</u>	\$ - \$ - \$ -
\$1-G5	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-4ZDD-0013 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in	EA EA	0	\$ -	\$ -	\$ - \$ -	\$ -	<u>'</u>	\$ - \$ - \$ - \$ -
\$1-G5 \$1-G6	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-4ZDD-0013 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing 505573-4633-4ZDD-0061 Sub-total (S1-Gx): Fr Optional Pricing (S1-Ix)	EA EA	0	\$ -	\$ -	\$ - \$ -	\$ - \$ -	<u>'</u>	\$ - \$ - \$ - \$ -
\$1-G5 \$1-G6	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-4ZDD-0013 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing 505573-4633-4ZDD-0061 Sub-total (S1-Gx): Fr	EA EA	0	\$ -	\$ -	\$ - \$ - \$ -	\$ - \$ -	<u>'</u>	\$ - \$ - \$ - \$ - \$ -
\$1-G5 \$1-G6	per Drawing 505573-4633-4ZDD-0021 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawing 505573-4633-4ZDD-0013 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Drawing 505573-4633-4ZDD-0061 Sub-total (S1-Gx): Fr Optional Pricing (S1-Ix) Perform Geotechnical Investigation and Identify Foundation Type as	EA EA raming and Settin	o g of Wood Poles	\$ -	\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ -	,
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Item No.	Description	Unit of Measure	Estimated Quantity	Unit Manhours(hrs)	Eq	uipment(\$)	Material (\$)	Labour(\$)	Total Unit Price(\$)	Sub	total Price (\$)
S1-I33	Assembly and Installation of Foundation Type D2-2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$	0.60	\$ -	\$ 0.80	\$ 1.40	\$	1.40
S1-I34	Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.01	\$	0.60	\$ -	\$ 0.80	\$ 1.40	\$	1.40
S1-I35	Assembly and Erection of Tower Type A1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	1.94	\$ -	\$ 3.01	\$ 4.95	\$	4.95
S1-I36	Assembly and Erection of Tower Type A2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.06	\$ -	\$ 3.10	\$ 5.16	\$	5.16
S1-I37	Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	1.94	\$ -	\$ 3.01	\$ 4.95	\$	4.95
S1-I38	Assembly and Erection of Tower Type A4, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	1.94	\$ -	\$ 3.01	\$ 4.95	\$	4.95
S1-I39	Assembly and Erection of Tower Type B1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	1.94	\$ -	\$ 3.01	\$ 4.95	\$	4.95
S1-I40	Assembly and Erection of Tower Type B2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.00	\$ -	\$ 3.05	\$ 5.05	\$	5.05
S1-I41	Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.10	\$ -	\$ 3.17	\$ 5.27	\$	5.27
S1-I42	Assembly and Erection of Tower Type C2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.10	\$ -	\$ 3.17	\$ 5.27	\$	5.27
S1-I43	Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.10	\$ -	\$ 3.17	\$ 5.27	\$	5.27
S1-I44	Assembly and Erection of Tower Type D2, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.10	\$ -	\$ 3.17	\$ 5.27	\$	5.27
S1-I45	Assembly and Erection of Tower Type E1, per kg, to be used for weight increases or decreases	KG	1	\$ 0.03	\$	2.10	\$ -	\$ 3.17	\$ 5.27	\$	5.27
S1-I46	Survey Cost	LS	1	\$ 247,385.79	\$	1,573,373.63	\$ 78,668.69	\$ 970,247.07	\$ 2,622,289.39	\$	2,622,289.39
	9	Sub-total (S1-Ix) :	Optional Pricing	247,620.29	\$	1,602,841.58	\$ 78,668.69	\$ 1,003,823.49	\$ 2,685,333.76	\$	2,685,333.76
	TOTAL VALUE THIS PROPOSAL (Tax Excluded):										452,239,303.27
	FOR THE LOWER CHURCHILL PROJECT - MUSKRAT FALLS										
	This Appendix forms part of the Proposal submitted by:										
	Name of Bidder:										
	Request For Proposal no: 505573-CT0327										
	Signature:										
	Date of Proposal:										



Notes:



VH00 NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland) Project Estimate - Valard Construction Ltd. Man-Hour Estimate; Primary Structures and equipment IALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland) Crew Cost Total Unit Cost Manhours and Paymen Units Hours per Total Subtotal Materials Total Materials Description Hourly Rate Unit Cost Unit Cost Materials Crew No. Item V-H00 S1-A General Works (S1-Ax) V-H01 **Mobilization and Demobilization** V::A01 S1-A1 Initial Mobilization Total structure count: LS - \$ - \$ S1-A1 Initial Mobilization each 1 \$ each each each - \$ each - \$ each 1 \$ V::A02 S1-A2 Final Demobilization Total structure count: - \$ S1-A2 Final Demobilization each - \$ each each each each 1 \$ each 4,617,255.15 4,617,255.15 \$ **45,687,843.87** \$ 50,305,099.02 \$ S1-A3 Accommodation Camp Installation Total structure count: 45,687,843.87 S1-A3 Accommodation Camp Installation 1 New Camps 3 moves Permitting and Supervise Installation 400.00 66,876.82 \$ 66,876.82 66,876.82 each Site Preparation each 1200.00 1,158,644.42 \$ 1,158,644.42 1,158,644.42 Camp Site Preparation Install Radio System 42 92,278.96 \$ 92,278.96 92,278.96 OPGW Splice each 310.00 1 \$ Set up Camp 1,848,452.33 \$ 1,848,452.33 1,848,452.33 each Camp Setup each Mobilize Camp in third party each 1,451,002.61 \$ 1,451,002.61 1,451,002.61 Camp Move Camp Haul each 1 \$ 4,617,255.15 4,617,255.15 S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day Total structure count: 24000 person-day -250.01 \$ 250.01 \$ 6,000,309.00 S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day 24000 each 24000 \$ each 24000 24000 \$ 24000 24000 \$ each - \$ each 24000 24000 24000 24000 \$ each 24000 - \$ - 24000 \$ each



	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost		
Payment		Units		Hours per							Manhours and		
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::A05	S1-A5 Meals for Company/Engineer visitors S1-A5 Meals for Company/Engineer visitors	Total structure count:	2000	meal		\$	-	\$	-	\$ 41.68	\$ 41.68	\$	83,354.2
		each 2000			\$ -	\$ - \$		2000 \$	_				
		each 2000)		\$ -	\$ - \$	-	2000 \$	-				
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		each 2000)		\$ -	\$ - \$	_		-				
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V::A06	S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4	Total structure count:	1	LS		\$		\$	-	\$ -	\$ -	\$	-
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∕::A07	S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6	Total structure count:	1	LS		\$	-	\$	•	\$ -	\$ -	\$	-
		each 1			\$ -	\$ - \$	-		-				
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		each 1			\$ -	\$ - \$			-				
/::A08	S1-A8 Performance Bonding Article 7.1 S1-A8 Performance Bonding Article 7.1	Total structure count:	1	LS	U	\$ - \$		_		\$ -	\$ -	\$	-
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′::A09	S1-A9 Labour and Materials Bonding Article 7.2 S1-A9 Labour and Materials Bonding Article 7.2	Total structure count:	1	LS		\$	-	\$	-	\$ -	-	\$	-
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Valard Construction LP

	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment	D 1.5	Units		Hours per			0.1	[Manhours and	I
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
1/ 1104	C4 B Binkt of Way Classing Birect Costs (C4 By)											
V-H04 V::B01	S1-B Right-of-Way Clearing - Direct Costs (S1-Bx) S1-B1 ROW Clearing	Total structure count:	2737	На			-	\$	-	\$ 19,550.00	\$ 19,550.00	\$ 53,508,350.00
VB01	S1-B1 ROW Clearing	Total Structure Count.	2131	i ia				Ψ		Ψ 13,330.00	Ψ 13,330.00	33,300,330.00
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V::B02		Total structure count:	1000	EA			-	\$	-	\$ 210.00	\$ 210.00	\$ 210,000.00
	S1-B2 Removal of selected danger trees											
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V::B03	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized	Total structure count:	1455	LM		*	-	\$	-	\$ 426.01	\$ 426.01	\$ 619,838.73
	S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2										•	,
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		each 1455				\$ -		1455 \$	-			
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VB04	C4 D4 Cumply and Installation of Bridge 2 m	Total structure count:	219	EA			-	¢	-	¢ 22.700.00	\$ 32,700.00	\$ 7.161.200.00
V::BU4	S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	Total Structure Count.	219	EA			-	a	-	\$ 32,700.00	\$ 32,700.00	\$ 7,161,300.00
	O1-D4 Supply and installation of bridge - 5 m											
		each 219			\$ -	\$ -	-	219 \$	-			
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
Payment			Units		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V D05	O4 D5 Owner, and Installation of Dridge Ass	Tatal atmiss		_				c	•		¢ 42.000.0	0 6 42 000 00	¢ 97,200,00
V::B05	S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m	Total struct	ture count:	2	EA			\$	- \$	-	\$ 43,600.0	0 \$ 43,600.00	\$ 87,200.00
	31-B3 Supply and Installation of Bridge - 4 III												
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V::B06	S1-B6 Supply and Installation of Bridge - 5 m	Total struct	ture count:	20	EA			\$	- \$	-	\$ 54,500.0	0 \$ 54,500.00	\$ 1,090,000.00
VB00	S1-B6 Supply and Installation of Bridge - 5 m	Total Struck	are count.					ų.	Ψ		ψ 04,000.0	υ ψ υπ,υυυ.υυ	1,000,000.00
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V::B07	S1-B7 Supply and Installation of Bridge - 6 m	Total struct	ture count:	0	EA			\$	- \$	-	\$ 65,400.0	0 \$ 65,400.00	\$ -
	S1-B7 Supply and Installation of Bridge - 6 m												
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew	Cost								Total Unit Cost		
Payment			Units		Hours per										Manhours and		
Item	Description		Total	Crew No.	unit	Hourly R	ate	Unit Cost		Subtotal	Units	Unit Cost		Materials	Materials	Total Materials	
VD00	C4 D0 Comply and Installation of Bridge 7 m	Total struct	ura aquest.	15	EA				\$		\$		\$	76,300.00	\$ 76,300.00	•	1,144,500.00
V::B08	S1-B8 Supply and Installation of Bridge - 7 m S1-B8 Supply and Installation of Bridge - 7 m	Total Struct	ure count:	15	_ EA				Þ	-	P	-	Þ	76,300.00	\$ 76,300.00	Þ	1,144,500.00
	OT-DO Supply and installation of bridge - 7 m																
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V::B09	S1-B9 Supply and Installation of Bridge - 8 m	Total struct	ure count:	0	EA				\$	-	\$	-	\$	87,200.00	\$ 87,200.00	\$	-
	S1-B9 Supply and Installation of Bridge - 8 m				_												
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V::B10	S1-B10 Supply and Installation of Bridge - 10 m	Total struct	ure count:	10	EA				\$	-	\$	-	\$	109,000.00	\$ 109,000.00	\$	1,090,000.00
	S1-B10 Supply and Installation of Bridge - 10 m																
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost		
Payment		Units		Hours per							Manhours and		
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::B11	S1-B11 Supply and Installation of Bridge - 13 m S1-B11 Supply and Installation of Bridge - 13 m	Total structure count:	1	EA		\$		\$	-	\$ 141,700.00	\$ 141,700.00	\$	141,700.00
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V::B12	S1-B12 Supply and Installation of Bridge - 14 m S1-B12 Supply and Installation of Bridge - 14 m	Total structure count:	0	EA		\$		\$	-	\$ 152,600.00	\$ 152,600.00	\$	-
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V::B13	S1-B13 Supply and Installation of Bridge - 15 m S1-B13 Supply and Installation of Bridge - 15 m	Total structure count:	0	EA		\$ - \$	-	\$	-	\$ 163,500.00	\$ 163,500.00	\$	-
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment	,	Units		Hours per							Manhours and	
	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B14	S1-B14 Supply and Installation of Bridge - 16 m S1-B14 Supply and Installation of Bridge - 16 m	Total structure count:	0	EA		\$		\$	-	\$ 174,400.00	\$ 174,400.00	\$ -
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V::B15	S1-B15 Supply and Installation of Bridge - 25 m S1-B15 Supply and Installation of Bridge - 25 m	Total structure count:	0	EA		\$			-	\$ 272,500.00	\$ 272,500.00	-
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V::B16	S1-B16 Supply and Installation of Bridge - 35 m S1-B16 Supply and Installation of Bridge - 35 m	Total structure count:	1	EA		\$			-	\$ 381,500.00	\$ 381,500.00	\$ 381,500.00
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V::B17	S1-B17 Supply and Installation of Bridge - 50 m S1-B17 Supply and Installation of Bridge - 50 m	Total structure count:	0	EA		\$	-	\$	-	\$ 545,000.00	\$ 545,000.00	-
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost							otal Unit Cost	
Payment	Description		Units Total	Crow No	Hours per	Hourly Boto	Unit Cost	Subtotal	Units	Unit Cost	Mat	erials	lanhours and Materials	Total Materials
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	UTIILS	Unit Cost	IVIal	enais	Materials	Total Materials
V::B18	S1-B18 Supply and Installation of Bridge - 60 m S1-B18 Supply and Installation of Bridge - 60 m	Total struct	ture count:	0	EA		I	\$ -	\$	•	\$	654,000.00 \$	654,000.00	-
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VB40	S1-B19 Supply and Installation of Bridge - 65 m	Total struct	turo count:	0	EA			\$ -	\$		\$	709 500 00 .	708,500.00	e e
V::B19	S1-B19 Supply and Installation of Bridge - 65 m	Total Struct	ture count.	U	LA			3	Φ	-	Ф	700,300.00 \$	700,300.00	-
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V::B20	S1-B20 Installation of Corduroy Road S1-B20 Installation of Corduroy Road	each	ture count:	8233	LM	\$ -	\$ - \$ -	\$ -	0 \$ \$ \$	-	 	139.45 \$	139.45	\$ 1,148,083.62
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	S1-B20 Installation of Corduroy Road S1-B21 Installation of Access Road - Access Class 3	each each each each each each each each	8233 8233 8233 8233 8233 8233 8233 8233	8233 402	KM	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8233 \$ 8423 \$ 84	- - - - - - - - - - - -				
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost						otal Unit Cost	
Payment Item	Description	Ur	nits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units U	nit Cost	Materials M	anhours and Materials T	otal Materials
V::B22	S1-B22 Installation of Access Road - Access Trail S1-B22 Installation of Access Road - Access Trail	Total structur	<u> </u>	41	KM	Flourity Nate	Offic Cost	\$ -		- \$	80,700.00 \$	-	
		each	41			\$ -	\$ -	\$ -	41 \$	-			
		each	41			\$ -	\$ -	\$ -	41 \$	-			
		each	41			\$ -	\$ -	\$ -		-			
		each each	41 41			\$ - \$ -	\$ - \$ -	\$ - \$ -		-			
		each	41			\$ -	\$ -	\$ -		-			
		each	41			\$ -	\$ -	\$ -	41 \$	-			
		each	41			\$ -	\$ -	\$ -	41 \$	-			
V::B23	S1-B23 Installation of Access Road - Bypass Trail	Total structur	re count:	35	KM		\$ -	\$ -		- - \$	80,700.00 \$	80,700.00	\$ 2,824,500.00
V.:.D23	S1-B23 Installation of Access Road - Bypass Trail S1-B23 Installation of Access Road - Bypass Trail	Total Structur	re count.	33	KINI				Φ	- •	80,700.00 \$	80,700.00	2,024,300.00
		each	35			\$ - \$ -	\$ - \$ -	\$ - \$ -	35 \$ 35 \$	-			
		each each	35 35			\$ -	\$ - \$ -	\$ -		-			
		each	35			\$ -	\$ -	\$ -		-			
		each	35			\$ -	\$ -	\$ -	35 \$	-			
		each	35			\$ -	\$ -	\$ -		-			
		each	35			\$ -	\$ -	\$ -		-			
		each	35			-	\$ - \$ -	\$ - \$ -		-			
V::B24	S1-B24 Installation of Access Road - Ice Bridge S1-B24 Installation of Access Road - Ice Bridge	Total structur	-		LM			\$ -	\$	- \$	7,200.00 \$	7,200.00	\$ 410,400.00
		each	57			\$ -	\$ -	\$ -	57 \$	-			
		each each	57 57			\$ -	\$ - \$ -	\$ - \$ -		-			
		each	57			\$ - \$ -	\$ -	\$ - \$ -		-			
		each	57			\$	\$ -	\$ -		-			
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		each	57			-	\$ - \$ -	\$ - \$ -	57 \$ \$	-			
V-H06	S1-B Right-of-Way Clearing for Wood Pole Electrode Line- Direct Costs (S1-Bx)						<u>-</u>	Ψ -	Ψ				
V::B25	S1-B25 ROW Clearing S1-B25 ROW Clearing	Total structur	re count:	0	Ha			-	\$	- \$	19,550.00 \$	19,550.00	-
		each	0			\$ -	*	\$ -	0 \$	-			
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N	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
ent		Units		Hours per							Manhours and	
	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
6 S	61-B26 Removal of selected danger trees 61-B26 Removal of selected danger trees	Total structure count:	0	EA			\$ -		\$ -	\$ 210.	. <mark>00</mark> \$ 210.00	\$
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	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized	Total structure count:	0	LM			\$ -		\$ -	\$ 426.	.01 \$ 426.01	\$
Š	31-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized 31-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2								•	.=0.		•
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8		Total structure count:	0	EA			\$ -		\$ -	\$ 32,700.	. <mark>00 </mark>	\$
	31-B28 Supply and Installation of Bridge - 3 m				1							
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment	,	Units		Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
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V::B29	S1-B29 Supply and Installation of Bridge - 4 m	Total structure count:	0	EA			\$ -	\$	-	\$ 43,600.00	\$ 43,600.00	-
	S1-B29 Supply and Installation of Bridge - 4 m				_							
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V::B30	S1-B30 Supply and Installation of Bridge - 5 m	Total structure count:	0	EA			\$ -	\$	-	\$ 54,500.00	\$ 54,500.00	-
	S1-B30 Supply and Installation of Bridge - 5 m									, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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V::B31	S1-B31 Supply and Installation of Bridge - 6 m	Total structure count:	0	EA			\$ -	\$	-	\$ 65,400.00	\$ 65,400.00	l c
V.:.D31	S1-B31 Supply and Installation of Bridge - 6 m	Total Structure Count.	U				Ψ -	Φ	-	a 65,400.00	\$ 65,400.00	-
	OT-DOT Supply and installation of bridge - o in											
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
Payment			Units		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Total Materials
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V::B32	S1-B32 Supply and Installation of Bridge - 7 m	Total struct	ture count:	0	EA			\$ -		\$ -	\$ 76,300.00	\$ 76,300.00	\$ -
	S1-B32 Supply and Installation of Bridge - 7 m												
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V::B33	S1-B33 Supply and Installation of Bridge - 8 m	Total struc	ture count:	0	EA			\$ -		\$ -	\$ 87,200.00	\$ 87,200.00	\$ -
	S1-B33 Supply and Installation of Bridge - 8 m												
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V::B34	S1-B34 Supply and Installation of Bridge - 10 m	Total struc	turo count:	0	EA			\$ -		\$ -	¢ 100,000,00	\$ 109,000.00	l ¢
VD34	S1-B34 Supply and Installation of Bridge - 10 m	Total Struc	ture count.		LA			Ψ -		4 -	φ 109,000.00	φ 103,000.00	-
	The supply and installation of Bridge 10 m												
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B35	S1-B35 Supply and Installation of Bridge - 13 m S1-B35 Supply and Installation of Bridge - 13 m	Total structure count:	0	EA			\$ -	\$	- \$	141,700.00	\$ 141,700.00	\$ -
		each 0		\$	_	\$ -	\$ -	0 \$	-			
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V::B36	S1-B36 Supply and Installation of Bridge - 14 m S1-B36 Supply and Installation of Bridge - 14 m	Total structure count:	0	EA			-	\$	- \$	152,600.00	\$ 152,600.00	-
		each 0		\$	<u>-</u>		\$ -	0 \$	-			
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V::B37	S1-B37 Supply and Installation of Bridge - 15 m S1-B37 Supply and Installation of Bridge - 15 m	Total structure count:	0	EA		\$	\$ - \$ -		<u>-</u> - \$	163,500.00	\$ 163,500.00	\$ -
		each 0		\$	-		\$ -		-			
		each 0		\$	_		\$ <u>-</u>		-			
		each 0 each 0		3	<u> </u>	\$ - \$ -	\$ <u>-</u> \$ -		-			
		each 0		9	-	\$ -	\$ -		-			
		each 0		\$	-	\$ -	\$ -		=			
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		each 0		\$	-	\$ -	<u>-</u>		-			
						\$ - <u>-</u>	\$ -	•	-			



	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)			Crew Cost							Total Unit Cost	
Payment		Units]	Hours per							Manhours and	
ltem	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B38	S1-B38 Supply and Installation of Bridge - 16 m S1-B38 Supply and Installation of Bridge - 16 m	Total structure count:	0	EA			\$ -	\$	- 4	174,400.00	\$ 174,400.00	\$ -
				Φ.		Ι φ	Φ.					
		each 0		\$	<u>-</u>	\$ - \$ -	\$ -	0 \$	=			
		each 0		\$	-		\$ -	0 \$	-			
		each 0		\$	<u> </u>	\$ -	\$ -		-			
		each 0		\$	_	\$ -	\$ -		_			
		each 0		\$	-	\$ -	\$ -	. 0 \$	-			
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		each 0		\$	<u> </u>		\$ -		-			
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		each 0		\$	-		\$		-			
		I I				\$ -	\$ -	\$	=			
V::B39	S1-B39 Supply and Installation of Bridge - 25 m S1-B39 Supply and Installation of Bridge - 25 m	Total structure count:	0	EA			\$ -	\$	- 4	272,500.00	\$ 272,500.00	\$ -
		each 0		\$	-	-	\$ -		=			
		each 0		\$	-	\$ -	\$		-			
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		each 0		\$	<u> </u>	\$ -	\$ -		-			
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		each 0		\$			\$ -		-			
		each 0		\$		\$ -	\$ -	0 \$	-			
						\$ -	\$ -	\$	-			
V::B40	S1-B40 Supply and Installation of Bridge - 35 m S1-B40 Supply and Installation of Bridge - 35 m	Total structure count:	0	EA	U		\$ -	\$	- (381,500.00	\$ 381,500.00	-
		each 0		\$		-	\$ -	0 \$	-			
		each 0		\$	-	\$ -	\$ -	0 \$	=			
		each 0		\$	-	\$ -	\$ -	0 \$	=			
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment	·	Units		Hours per							Manhours and	
	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
				_		_						
V::B41	S1-B41 Supply and Installation of Bridge - 50 m	Total structure count:	0	EA		\$	-	\$	-	\$ 545,000.00	\$ 545,000.00	\$ -
	S1-B41 Supply and Installation of Bridge - 50 m				_							
		each 0			-	\$ - \$	-		-			
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		each 0			\$ -	\$ - \$			-			
		each 0			\$ -	\$ - \$	-		-			
						\$ - \$			-			
V::B42	S1-B42 Supply and Installation of Bridge - 60 m S1-B42 Supply and Installation of Bridge - 60 m	Total structure count:	0	EA		\$	-	\$	-	\$ 654,000.00	\$ 654,000.00	-
		each 0			\$ -/	\$ - \$	-		=			
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V::B43	S1-B43 Supply and Installation of Bridge - 65 m	Total structure count:	0	EA		\$	-	\$	-	\$ 708.500.00	\$ 708,500.00	-
	S1-B43 Supply and Installation of Bridge - 65 m									•	+ 100,000	•
	117											
		each 0			\$	\$ - \$	-	0 \$	-			
		each 0			-	\$ - \$	-	0 \$	-			
		each 0			-	\$ - \$	-		-			
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		each 0			-	5 - 5	-	0 \$	-			
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost			1			Total Unit Cost	
Payment			Units		Hours per			1				Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B44	S1-B44 Installation of Corduroy Road	Total struct	ture count:	0	LM			-		\$ -	\$ 139.45	\$ 139.45	-
	S1-B44 Installation of Corduroy Road					1							
		each	l 0			\$ -	\$ -	-	0	\$ -	7		
		each	0			\$ -		\$ -	1 0	\$ -	1		
		each	0			\$ -		\$ -	0	\$ -	-		
		each	0			\$ -		\$ -	0	\$ -	-		
		each	0			\$ -	\$ -	\$ -	0		†		
		each	0			\$ -	<u>'</u>	\$ -	0				
		each	0			\$ -		\$ -	0	\$ -	1		
		each	0			\$ -		\$ -	0	\$ -			
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		each	0			\$ -	\$ -	\$ -	0	\$ -			
		each	0			\$ -	\$ -	-	0	\$ -			
							\$ -	\$ -	1	\$ -			
										•			
V::B45	S1-B45 Installation of Access Road - Access Class 3	Total struct	ture count:	0	KM			\$ -		\$ -	\$ 80,700.00	\$ 80,700.00	-
	S1-B45 Installation of Access Road - Access Class 3					1							
			1 0			c	\$ -	I é	1 0	r	7		
		each	0			5 -		\$ - \$ -	0	\$ -	-		
		each each	0			ф - С	\$ -		0		_		
		each	0			Φ -	\$ -		0	\$ -	+		
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		each	0		A	\$ -		\$ -	0		1		
		each	0			\$ -		\$ -	0				
		each	0			\$ -		\$ -	0	\$ -	1		
		each	0			\$ -	\$ -	\$ -	0		1		
							\$ -	\$ -		\$ -			
V::B46	S1-B46 Installation of Access Road - Access Trail	Total struct	ture count:	0	KM			\$ -		\$ -	\$ 80,700.00	\$ 80,700.00	\$ -
	S1-B46 Installation of Access Road - Access Trail												
								T.			٦		
		each	0			\$ -	\$ -		0	\$ -	4		
		each each	0			\$ -		\$ - \$ -	0	\$ -	4		
		each	0			\$ -	\$ - \$ -	\$ - \$ -	0		1		
		each	0			\$ -	· ·	\$ -	0		1		
		each	0			\$ -	•	\$ -	0		1		
		each	0			\$ -	\$ -	\$ -	0		1		
		each	0			\$ -	_	\$ -	0		1		
		each	0			\$ -	т	\$ -	0		1		
		each	0			\$ -	\$ -	•	0		1		
		each	0			\$ -	\$ -			\$ -]		
		/					\$ -	-		\$ -			





	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost							Total Unit Cost	
Payment			Units		Hours per								Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	,	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::B47	S1-B47 Installation of Access Road - Bypass Trail S1-B47 Installation of Access Road - Bypass Trail	Total struct	ture count:	0	KM			\$	-		\$ -	\$ 80,70	0.00 \$ 80,700.00	\$ -
	11-047 Illistaliation of Access Road - bypass Trail													
		each	0			\$ -	\$ -	\$		0	\$ -			
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							\$ -	\$	_		\$ -			



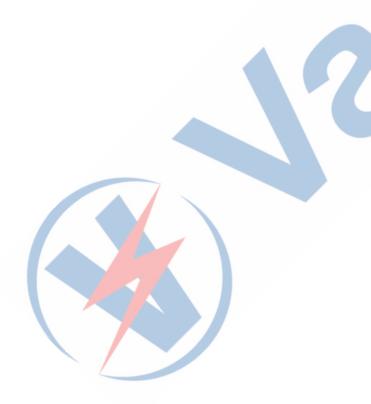


	NALCOR 350 kV HVdc Line Constru	uction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
Payment	- · · ·			Units		Hours per			<u> </u>				Manhours and	T
Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subto	tal Units	Unit Cost	Materials	Materials	Total Materials
V-H07 V-H08 V::C01	S1-C Tower Foundation Construction (S1 Guy Wire Anchors S1-C1 Installation of Guy Wire Anchor in	soil as per design drawings and	Total struct	ture count:	31000	LM			\$	- \$	-	\$ 468.58	\$ 468.58	3 \$ 14,526,
	S1-C1 Installation of Guy Wire Anchor in so	oil as per design drawings and technical s	specification											
			each	31000			\$ -	\$ -	 \$	- 31000 \$		7		
			each	31000			\$ -	•	\$	- 31000 \$	<u> </u>			
			each	31000			\$ -		\$	- 31000 \$	-			
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			each	31000			\$ -	Ť	\$	- 31000 \$				
			each	31000			\$ -	\$ -	\$	- 31000 \$	-	4		
			each each	31000 31000			\$ -		\$	- 31000 \$ - 31000 \$	-			
			eacn	31000			-	\$ -	\$	- 31000 \$ - \$	- -			
			I	I				Ψ	Ψ	- Ψ	_	_		
V::C02	S1-C2 Installation of Guy Wire Anchor in S1-C2 Installation of Guy Wire Anchor in ro	rock as per design drawings and ock as per design drawings and technical	Total struct specification	ture count:	29000	LM			\$	- \$	-	\$ 432.81	\$ 432.87	12,551,5
			each	29000			\$ -	\$ -		- 29000 \$	-			
			each	29000			\$ -	\$ -	\$	- 29000 \$	-			
			each	29000			\$ -	\$ -	\$	- 29000 \$	-			
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			each	29000			5 -	\$ -	\$	- 29000 \$	-	=		
			each each	29000 29000			ф -	\$ - \$ -	ф Ф	- 29000 \$ - 29000 \$	-	=		
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			each	29000			\$ -	\$ -	\$	- 29000 \$	-			
								\$ -	\$	- \$	-			
V::C02-1	S1-C2 Testing of Guy Wire Anchor up to S1-C2 Testing of Guy Wire Anchor up to 55	550kN as per design drawings and 50kN as per design drawings and technic	Total struct	ture count:	4068	Ea			\$ 230	6,935.13 \$	58.24	\$ 994.35	\$ 1,052.60	4,045,0
	Supervise installation	Supervisory	each	4068	29	0.25	\$ 167.	9 \$ 41.80		0,034.32 4068 \$	41.80	7		
	Placement survey	Foundation Survey (\$250/h)	each	4068	18	0.05	\$ 328.9			6,900.81 4068 \$	16.45			
			each	4068			\$ -	\$ -	\$	- 4068 \$	=			
			each	4068			\$ -	\$ -	\$	- 4068 \$	-	_		
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			each	4068			\$ -	· ·	\$	- 4068 \$	-	4		
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			each each	4068 4068			\$ - \$ -		\$	- 4068 \$ - 4068 \$	-	-		
		_	eacii	4008			-	\$ 58.24		- 4068 \$ 6,935.13 \$	58.24	<u> </u>		
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NALCOR 350 kV HVdc Line Construc	ction Front 3 (Newfoundland)				Crew Cost								Total Unit Cost		
Description		Units Total		Crew No.	Hours per unit	Hourly Rate	Unit Cost		Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
S1-C2 Testing of Guy Wire Anchorup to 90	00kN as per design drawings and	Total structu	re count:	208	Ea			\$	12,114.68	\$	58.24	\$ 994.35	\$ 1,052.60	\$	206,825.50
61-C2 Testing of Guy Wire Anchorup to 900	kN as per design drawings and technic	al specification	-		_										
Supervise installation	Supervisory	each	208	29	0.25	\$ 167.19	\$ 41.80	\$	8,693.99	208 \$	41.80				
Placement survey	Foundation Survey (\$250/h)	each	208	18	0.05	\$ 328.91	\$ 16.45	\$	3,420.69	208 \$	16.45				
·		each	208			\$ -	\$ -	\$	-	208 \$	-				
		each	208			\$ -	\$ -	\$	-	208 \$	-				
		each	208			\$ -	\$ -	\$		208 \$	-				
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		each	208			\$ -	\$ -	\$	-	208 \$	-				
		each	208			\$ -	\$ -	\$	-	208 \$	-				
	_	each	208			\$	\$ -	\$		208 \$	-				
	·	each	208			\$ -	\$ -	\$		208 \$	-				
	·	each	208			-	\$ -	\$	-	208 \$	-				
3	nescription 1-C2 Testing of Guy Wire Anchorup to 90 1-C2 Testing of Guy Wire Anchorup to 900 upervise installation	1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technic upervise installation	Pescription 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification upervise installation upervise installation supervisory poundation Survey (\$250h) each each each each each each each eac	Units Total 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification upervise installation upervise installation supervisory each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208 each 208	Units Total Crew No. 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification Upervise installation Upervise installation Supervisory Each Supervisory Each	Units Total Crew No. Units 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification Upervise installation Supervisory each 208 29 0.25 lacement survey each 208 18 0.05 Each 208 each	Locating of Guy Wire Anchorup to 900kN as per design drawings and 1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and technical specification Total structure count: 208 Ea Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 900kN as per design drawings and technical specification Locating of Guy Wire Anchorup to 9	Units Total Crew No. Hours per unit Hourly Rate Unit Cost	Units Total Crew No. Hours per unit Hourly Rate Unit Cost	Units Total Crew No. Hourly Rate Unit Cost Subtotal	Units Hourly Rate Unit Cost Subtotal Units	Units Hours per unit Hourly Rate Unit Cost Subtotal Unit Cost Un	Units Total Crew No. Hours per unit Hourly Rate Unit Cost Subtotal Units Unit Cost Materials	Units Hourly Rate Hourly Rate Unit Cost Subtoal Unit Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Materials Materials Materials	Units Hours per unit Hourly Rate Unit Cost Subtotal Units Unit Cost Unit Cost Materials Manhours and Materials Manhours and Materials Materials Materials Materials Materials Materials Materials Materials Materials Total Mate





NALCOR 350 kV HVdc Line Constr	ruction Front 3 (Newloundland)					Crew Cost						Total Unit Cost		
			Units		Hours per			0.14.4.5				Manhours and		
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
Grillage Foundations														
	undation Types A1-1 (100 kPa) as per	Total struc	ture count:	29	EA		\$	220.605.17	\$	7.607.07 \$	278.62	\$ 7.885.70	\$	8,080.06
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						· · · · · · · · · · · · · · · · · · ·								
7.54.14.	one oreansp	each	29		2.00	\$ - \$	- \$	-	29 \$	-				
		•	<u>'</u>	0.539135041		\$	7,607.07 \$	220,605.17	\$	7,607.07				
													_	
				0	EA		\$	•	\$	11,668.79 \$	468.98	\$ 12,137.77	\$	-
61-C4 Assembly and Installation of Founda	dation Types A2-1 (100 kPa) as per Dw	g 505573-4622-4	2DD-0084 for Tov	ver Types A2.										
Steel Weight (lh) =	9259 Granular (m3)	= 4	Excavation (m3) =	190	Backfill (m3) =	186								
Haul	(/	each	0	17	. ,		1.701.59 \$	-	0 \$	_				
xcavate	Found Excavation	each	0	19	2.12	\$ 1,143.76 \$		-	0 \$	-				
nstall	Grillage Installation	each	0	20	5.12	\$ 1,002.72 \$			0 \$	-				
Backfill & Compact	Backfill and Compact	each	0	21	2.12	\$ 959.2 5 \$			0 \$	-				
		each	0	22	2.00	\$ 194.96 \$		-	0 \$	-				
Cleanup	Site Cleanup					\$ - \$	- \$	-	0 \$	_				
Cleanup	Site Cleanup	each	0											
Cleanup	Site Cleanup	each	0			\$ - \$	- \$		0 \$	-				
Cleanup	Site Cleanup		, ,	0.402294472			- \$ - \$		0 \$ 0 \$	-				
Cleanup	Site Cleanup	each	0	0.493284173		\$ - \$	- \$		0 \$					
•		each each	0	0.493284173		\$ - \$	- \$ - \$		0 \$ 0 \$	-	377.13	\$ 9,890.18	;	8,296.7
S1-C5 Assembly and Installation of Foundaries S1-C5 Assembly and Installation of Foundaries	undation Types A3-1 (100 kPa) as per	each each	0 0	22		\$ - \$	- \$ - \$ 11,668.79 \$	-	0 \$ 0 \$ \$	-	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Foundatio	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw	each each Total struc g 505573-4622-4	cture count:	ver Types A3.	EA	\$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$	-	0 \$ 0 \$ \$	-	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Foundatio	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3)	each each Total struc g 505573-4622-4	cture count: 2DD-0084 for Tow Excavation (m3) =	22 wer Types A3.	EA Backfill (m3) =	\$ - \$ \$ - \$ \$	- \$ - \$ 11,668.79 \$	209,287.23	0 \$ 0 \$	9,513.06 \$	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Foundatio	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3)	each each Total structure 505573-4622-4 each	cture count: 2DD-0084 for Tow Excavation (m3) =	22 ver Types A3. 166 17	EA Backfill (m3) = 2.80	\$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ \$	209,287.23 27,184.90	0 \$ 0 \$ \$ \$ \$ \$ \$	9, 513.06 \$	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Foundatio	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation	each each	cture count: 2DD-0084 for Tow Excavation (m3) =	22 ver Types A3. 166 17 19	EA Backfill (m3) = 2.80 1.85	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$	- \$ - \$ 11,668.79 \$ \$ 1,235.68 \$ 2,114.62 \$	209,287.23 27,184.90 46,521.70	0 \$ 0 \$ \$ \$ \$ \$ 22 \$ 22 \$	9,513.06 \$ 1,235.68 2,114.62	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Foundatio	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3)	each each Total structure 505573-4622-4 each	0 0 0 0 0 0 0 0 0 0	22 ver Types A3. 166 17 19 20	EA Backfill (m3) = 2.80 1.85 3.99	\$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ \$ \$ 1,235.68 \$ 2,114.62 \$ 3,999.35 \$	209,287.23 27,184.90 46,521.70 87,985.63	0 \$ 0 \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$	9,513.06 \$ 1,235.68 2,114.62 3,999.35	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Founda S1-C5 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation	each each	cture count: 2DD-0084 for Tow Excavation (m3) =	22 ver Types A3. 166 17 19	EA Backfill (m3) = 2.80 1.85	\$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ \$ 1,235.68 \$ 2,114.62 \$	209,287.23 27,184.90 46,521.70	0 \$ 0 \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22 \$	9,513.06 \$ 1,235.68 2,114.62	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Four S1-C5 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation BackIll and Compact	Total struct g 505573-4622-4 each each each each each each	Excavation (m3) = 22 22 22 22 22 22 22	22 ver Types A3. 166 17 19 20 21	EA Backfill (m3) = 2.80 1.85 3.99 1.85	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Four S1-C5 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation BackIll and Compact	Total struct g 505573-4622-4 e each each each each each each each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21	EA Backfill (m3) = 2.80 1.85 3.99 1.85	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Four S1-C5 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation BackIll and Compact	Total struct g 505573-4622-4 each each each each each each each each	Excavation (m3) = 22 22 22 22 22 22 22	22 ver Types A3. 166 17 19 20 21 22	EA Backfill (m3) = 2.80 1.85 3.99 1.85	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ - \$ - \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - -	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Four S1-C5 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation BackIll and Compact	Total struct g 505573-4622-4 e each each each each each each each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21	EA Backfill (m3) = 2.80 1.85 3.99 1.85	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$	27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 -	377.13	\$ 9,890.18	\$	8,296.7
S1-C5 Assembly and Installation of Foundation C5 Assembly and Installation of Foundation (Ib) = Haul Excavate Install & Compact Cleanup	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struct g 505573-4622-4 each each each each each each each each	Exture count: 12DD-0084 for Tow Excavation (m3) = 22 22 22 22 22 22 22 22 22	22 ver Types A3. 166 17 19 20 21 22	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ - \$ - \$	27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - - - 9,513.06				8,296.7
S1-C5 Assembly and Installation of Foundation (Ib) = Haul Excavate Install & Compact Cleanup	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struc g 505573-4622-4 e each each each each each each each each	Exture count: 12DD-0084 for Tow Excavation (m3) = 22 22 22 22 22 22 22 22 22	22 ver Types A3. 166 17 19 20 21 22 0.511243585	EA Backfill (m3) = 2.80 1.85 3.99 1.85	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ - \$ - \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - -				8,296.
S1-C5 Assembly and Installation of Foundation C5 Assembly and Installation of Foundation (Ib) = Haul Excavate Install & Compact Cleanup	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struc g 505573-4622-4 e each each each each each each each each	Exture count: 12DD-0084 for Tow Excavation (m3) = 22 22 22 22 22 22 22 22 22	22 ver Types A3. 166 17 19 20 21 22 0.511243585	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ - \$ - \$	27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - - - 9,513.06				8,296.7
S1-C5 Assembly and Installation of Foundation (Ib) = Haul Excavate Install & Compact Cleanup	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struc g 505573-4622-4 each each each each each each each eac	Exture count: 12DD-0084 for Tow Excavation (m3) = 22 22 22 22 22 22 22 22 22	22 ver Types A3. 166 17 19 20 21 22 0.511243585	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00	\$ - \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ - \$ - \$	27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - - - 9,513.06				8,296.7
S1-C5 Assembly and Installation of Foundation (Ib) = Haul Excavate Example Compact Cleanup S1-C6 Assembly and Installation of Foundation (Ib) = Haul Excavate Excavate Excellent (Ib) = Haul Excellen	Indation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Indation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw	each each Total struc g 505573-4622-4 each each each each each each each eac	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4.	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ 9,513.06 \$	27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$ 22	- 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - - - 9,513.06				8,296.7
S1-C5 Assembly and Installation of Foundation (Ib) = Haul Excavate Exemply and Installation of Foundation (Ib) = Haul Excavate Exemply and Installation of Foundation (Ib) = Haul Exemply and Installation of Foundation (Ib) = Haul Exemply Exemply Exemply (Ib) = Haul Exemply Exemp	Indation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Indation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw 9259 Granular (m3)	each each Total struc g 505573-4622-4 = 4 each each each each each each each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4. 190 17 19	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86 2.12	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,668.79 \$ \$ 1,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ 9,513.06 \$ 1,701.59 \$ 2,419.16 \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27 - 209,287.23	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$	- - - 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - - - 9,513.06 11,668.79 \$				8,296.
S1-C5 Assembly and Installation of Four S1-C5 Assembly and Installation of Founds Steel Weight (lb) = Haul Excavate Install Sackfill & Compact Cleanup S1-C6 Assembly and Installation of Founds S1-C6 Assembly and Installation of Founds S1-C6 Assembly and Installation of Founds S1-C6 Weight (lb) = Haul Excavate Install	Indation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Indation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw 9259 Granular (m3) Foundation Haul	each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4. 190 17 19 20	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86 2.12 5.12	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,668.79 \$ \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ 9,513.06 \$ 1,701.59 \$ 2,419.16 \$ 5,129.22 \$	27,184.90 46,521.70 87,985.63 39,016.72 8,578.27	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$	- - - 9,513.06 \$ 1,235.68 2,114.62 3,999.35 1,773.49 389.92 - - - 9,513.06 11,668.79 \$				8,296.
S1-C5 Assembly and Installation of Founds S1-C5 Assembly and Installation of Founds Steel Weight (lb) = Haul Excavate Install Sackfill & Compact Cleanup S1-C6 Assembly and Installation of Founds	Indation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Indation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw 9259 Granular (m3) Foundation Haul Found Excavation	each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4. 190 17 19 20 21	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86 2.12 5.12 2.12	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ - \$ 9,513.06 \$ 1,701.59 \$ 2,419.16 \$ 5,129.22 \$ 2,028.90 \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27 - 209,287.23	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22 \$	- - - - - - - - - - - - - - - - - - -				8,296.7
S1-C5 Assembly and Installation of Four S1-C5 Assembly and Installation of Founds Steel Weight (lb) = Haul Excavate Install Sackfill & Compact Cleanup S1-C6 Assembly and Installation of Founds S1-C6 Assembly and Installation of Founds S1-C6 Assembly and Installation of Founds S1-C6 Weight (lb) = Haul Excavate Install	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup undation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw 9259 Granular (m3) Foundation Haul Found Excavation Grillage Installation	each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4. 190 17 19 20	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86 2.12 5.12	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ 9,513.06 \$ 1,701.59 \$ 2,419.16 \$ 5,129.22 \$ 2,028.90 \$ 389.92 \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27 - - 209,287.23	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 22	- - - - - - - - - - - - - - - - - - -				8,296.7 -
S1-C5 Assembly and Installation of Founds S1-C5 Assembly and Installation of Founds Steel Weight (lb) = Haul Excavate Install Sackfill & Compact Cleanup S1-C6 Assembly and Installation of Founds	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup undation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw 9259 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struc g 505573-4622-4 e each each each each each each each each	Excavation (m3) = 220 221 222 222 222 222 220 220 220 20	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4. 190 17 19 20 21 22	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86 2.12 5.12 2.12	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ 9,513.06 \$ 1,701.59 \$ 2,419.16 \$ 5,129.22 \$ 2,028.90 \$ 389.92 \$ - \$	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27 - - 209,287.23	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 2					8,296.7
S1-C5 Assembly and Installation of Founds S1-C5 Assembly and Installation of Founds Steel Weight (lb) = Haul Excavate Install Sackfill & Compact Cleanup S1-C6 Assembly and Installation of Founds	undation Types A3-1 (100 kPa) as per dation Types A3-1 (100 kPa) as per Dw 6724 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup undation Types A4-1 (100 kPa) as per dation Types A4-1 (100 kPa) as per Dw 9259 Granular (m3) Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each	Excavation (m3) = 22 22 22 22 22 22 22 22 22 22 22 22 2	22 ver Types A3. 166 17 19 20 21 22 0.511243585 0 ver Types A4. 190 17 19 20 21 22	EA Backfill (m3) = 2.80 1.85 3.99 1.85 2.00 EA Backfill (m3) = 3.86 2.12 5.12 2.12	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 11,668.79 \$ 11,235.68 \$ 2,114.62 \$ 3,999.35 \$ 1,773.49 \$ 389.92 \$ - \$ - \$ 9,513.06 \$ 1,701.59 \$ 2,419.16 \$ 5,129.22 \$ 2,028.90 \$ 389.92 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	209,287.23 27,184.90 46,521.70 87,985.63 39,016.72 8,578.27 - - 209,287.23	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ 22 \$ 22 \$ 22 \$ 2	- - - - - - - - - - - - - - - - - - -				8,296.77
G Stella	Grillage Foundations 1-C3 Assembly and Installation of Foundation 1-C3 Assembly and Installation of Foundation 1-C3 Assembly and Installation of Foundation 1-C4 Assembly and Installation of Foundation 1-C4 Assembly and Installation of Foundation 1-C4 Assembly and Installation of Foundation 1-C4 Assembly and Installation of Foundation 1-C4 Assembly and Installation of Foundation	Grillage Foundations 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg Ideal Weight (Ib) = 4718 Granular (m3) = 4718 Gr	Grillage Foundations 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Total structure. Total structur	Grillage Foundations 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Total structure count: 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Townseel Weight (lb) = 4718 Granular (m3) = 3 Excavation (m3) = 3	Scrillage Foundations 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Total structure count: 29	Scrillage Foundations Serillage Foundation Serillage Foundatio	Strillage Foundations Strillage Foundation Strillage Foundatio	Strillage Foundations Strillage Foundation Strillage Foundatio	Srillage Foundations 1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dvg 505573-4622-42DD-0084 for Tower Types A1. ceel Weight (lb) = 4718 Granular (m3) = 3 Excavation (m3) = 139 Backfill (m3) = 136	Care Weight (b) = 4718 Granular (m3) = 3 Excavation (m3) = 139 Backfill (m3) = 136 Sasembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1.	Calcard Calc	Cara Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Cara Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Cara Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Cara Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A1. Cara Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-42DD-0084 for Tower Types A2. Cara Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Total structure count:	Specific Specific	Fillipsi Foundation Found



	NALCOR 350 kV HVdc Line Construc	ction Front 3 (N	lewfoundland)					Crew Cost						Total Unit Cost		
nent					Units		Hours per							Manhours and		
	Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
						_									•	
07	S1-C7 Assembly and Installation of Found S1-C7 Assembly and Installation of Foundati	dation Types B1-	1 (100 kPa) as per		cture count:	2	EA		\$	26,582.56	\$	13,291.28 \$	538.82	2 \$ 13,830.11	\$	1,077.65
	51-C7 Assembly and installation of Foundati	lion Types BT-T (T	ou kPa) as per Dwg 503	33 <i>1</i> 3-4622-4	12DD-0084 101 10	ower Types BT.										
	Steel Weight (lb) =	11155	Granular (m3) =	5	Excavation (m3) =	209	Backfill (m3) =	204								
	Haul		Foundation Haul	each	2		4.65	\$ 441.04 \$	2,050.01 \$	4,100.02	2 9	3 2,050.01				
-	Excavate		Found Excavation	each	2	19	2.32	\$ 1,143.76 \$	2,652.55 \$	5,305.09						
	Install		Grillage Installation	each	2	20	5.96	\$ 1,002.72 \$	5,974.17 \$	11,948.35						
	Backfill & Compact		Backfill and Compact	each	2		2.32	\$ 959.25 \$	2,224.63 \$	4,449.26	2 \$					
	Cleanup		Site Cleanup	each	2	22	2.00	\$ 194.96 \$	389.92 \$	779.84						
-				each	2			\$ - \$		-	2 \$	-				
-				each	2			\$ - \$	- \$	-	2 \$					
<u> </u>				each	2			\$	- \$		2 9					
				1	1			\$	13,291.28 \$	26,582.56	3	13,291.28				
00	S1-C8 Assembly and Installation of Found	dation Tymps B2 :	1 (100 kDa) as nor	Total struc	 cture count:	0	EA		C			16,602.90 \$	116 70	8 \$ 17,049.68	· ·	
	S1-C8 Assembly and Installation of Foundati								2		•	10,002.90 \$	440.70	p 17,049.00) P	-
	31-00 Assembly and installation of Foundati	lion Types bz-1 (1	oo kraj as per Dwg So.	3373-4022-4	+200-0003 101 10	wei Types bz.										
	Steel Weight (lb) =	8424	Granular (m3) =	4	Excavation (m3) =	355	Backfill (m3) =	350								
	Haul		Foundation Haul	each	0	17	5.01	\$ 441.04 \$	2,209.60 \$	-	0 9	-				
	Excavate		Found Excavation	each	0		3.94	\$ 1,143.76 \$		-	0 \$	-				
	Install		Grillage Installation	each	0		4.74	\$ 1,002.7 2 \$			0 9					
	Backfill & Compact		Backfill and Compact	each	0		4.94	\$ 959.25 \$		-	0 9					
	<u> </u>		Site Cleanup	each	0	22	2.00	\$ 194.96 \$		<u> </u>	0 9					
	Cleanup		Site Cleanup					·								
	<u> </u>		Site Cleanup	each	0			\$ - \$		<u>-</u>	0 9					
	<u> </u>		Site Cleanup	each each	0			\$ - \$ \$ - \$	- \$	-	0 \$	-				
	<u> </u>		Site Cleanup	each	0			•	- \$ - \$			-				
	<u> </u>		Site Cleanup	each each	0			•	- \$	-	0 \$	-				
-	Cleanup	dation Types A1.		each each each	0 0		FA	•	- \$ - \$	-	0 \$	5 - 5 -	126 90	0 \$ 6117.56	. ¢	20 812 03
09	Cleanup S1-C9 Assembly and Installation of Found	dation Types A1-1	IA (250 kPa) as per	each each each	0 0 0	164	EA	•	- \$ - \$		0 \$	3 - 3 -	126.90	0 \$ 6,117.56	i \$	20,812.03
09	Cleanup	dation Types A1-1	IA (250 kPa) as per	each each each	0 0 0	164		•	- \$ - \$	-	0 \$	5 - 5 -	126.90	D \$ 6,117.56	5 \$	20,812.03
09	Cleanup S1-C9 Assembly and Installation of Found	dation Types A1-1 dion Types A1-1A (IA (250 kPa) as per	each each each	0 0 0	164		•	- \$ - \$ 16,602.90 \$	-	0 \$	5 - 5 -	126.90	D \$ 6,117.56	5 \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati	tion Types A1-1A (I A (250 kPa) as per 250 kPa) as per Dwg 5	each each each Total struct 05573-4622	0 0 0 0 cture count: 2-42DD-0084 for T	164 Fower Types A1. 92 17	Backfill (m3) = 2.19	\$ - \$ \$ - \$	- \$ - \$ 16,602.90 \$ \$	-	0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5	126.90	D \$ 6,117.56	\$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (Ib) = Haul Excavate	tion Types A1-1A (I A (250 kPa) as per 250 kPa) as per Dwg 5 Granular (m3) =	each each each Total struct 05573-4622	0 0 0 0 0 cture count: 2-42DD-0084 for T Excavation (m3) = 164 164	164 Fower Types A1. 92 17	Backfill (m3) = 2.19 1.03	\$ - \$ \$ - \$ \$	- \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$	982,467.40 158,706.75 192,488.81	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 - 5,990.65 \$ 5,990.72 1,173.71	126.90	D \$ 6,117.56	s \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 5 Granular (m3) =	each each each Total struc 05573-4622 1 each each each	0 0 0 0 2-42DD-0084 for T Excavation (m3) = 164 164	164 Fower Types A1. 92 17 19 20	Backfill (m3) = 2.19 1.03 2.27	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$	982,467.40 158,706.75 192,488.81 373,915.08	0 \$ 0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 5,990.65 \$ 6 967.72 6 1,173.71 7 2,279.97	126.90	D \$ 6,117.56	5 \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation	each each each Total struc 05573-4622 1 each each each each	0 0 0 0 2-42DD-0084 for T Excavation (m3) = 164 164 164	164 Fower Types A1. 92 17 19 20 21	Backfill (m3) = 2.19 1.03 2.27 1.03	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	- \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11	164 \$ 164 \$ 164 \$	5	126.90	D \$ 6,117.56	5 \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each each Total struc 05573-4622 1 each each each each each	0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ 16,602.90 \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	164 S 164 S 164 S 164 S 164 S	5	126.90	0 \$ 6,117.56	i \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622 1 each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	- \$ 16,602.90 \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5	126.90	0 \$ 6,117.56	i \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622 1 each each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 16,602.90 \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 5,990.65 \$ 5,990.65 \$ 6 967.72 6 1,173.71 6 2,279.97 6 984.37 6 584.88 6 -	126.90	0 \$ 6,117.56	i \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622 1 each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 - 5,990.65 \$ 5 967.72 5 1,173.71 6 2,279.97 6 984.37 6 584.88 7 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	126.90	0 \$ 6,117.56	i \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact	tion Types A1-1A (IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622 1 each each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 16,602.90 \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 5,990.65 \$ 5,990.65 \$ 6 967.72 6 1,173.71 6 2,279.97 6 984.37 6 584.88 6 -	126.90	0 \$ 6,117.56	i \$	20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup	2866	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 5,990.65 \$ 5,990.65 \$ 6 967.72 6 1,173.71 6 2,279.97 7 984.37 7 584.88 7 -				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati	2866 2866	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 - 5,990.65 \$ 5 967.72 5 1,173.71 6 2,279.97 6 984.37 6 584.88 7 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6		0 \$ 6,117.56 6 \$ 10,902.57		20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup	2866 2866	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 5,990.65 \$ 5,990.65 \$ 6 967.72 6 1,173.71 6 2,279.97 7 984.37 7 584.88 7 -				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati	2866 2866	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 5,990.65 \$ 5,990.65 \$ 6 967.72 6 1,173.71 6 2,279.97 7 984.37 7 584.88 7 -				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati S1-C10 Assembly and Installation of Foundation of Foun	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Hau! Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per (250 kPa) as per Dwg	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 2-42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22 0 Tower Types A2	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ \$	- \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg a	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 2-42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA Backfill (m3) = 3.80 2.44	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,143.76 \$	- \$ - \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ 1,674.41 \$ 2,791.30 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64	164 \$ 164 \$	5				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Installation of Foundati Steel Weight (lb) = Haul Excavate Install	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Hau! Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 30 Granular (m3) = Foundation Hau!	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164 164 2-42DD-0084 for Excavation (m3) =	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19 20	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA 2. Backfill (m3) = 3.80 2.44 3.45	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ 1,674.41 \$ 2,791.30 \$ 3,458.97 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64 	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 30 Granular (m3) = Foundation Haul Found Excavation	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19 20 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA 2. Backfill (m3) = 3.80 2.44 3.45 2.44	91 \$ 441.04 \$ \$ 1,143.76 \$ \$ 194.96 \$ \$ - \$ \$ 194.96 \$ \$ - \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	- \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ 1,674.41 \$ 2,791.30 \$ 3,458.97 \$ 2,341.00 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64 	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5				20,812.0:
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Installation of Foundati Steel Weight (lb) = Haul Excavate Install	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg 60 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each each Total struct 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19 20 21 22 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA 2. Backfill (m3) = 3.80 2.44 3.45	91 \$ 441.04 \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ \$ 1,674.41 \$ 2,791.30 \$ 3,458.97 \$ 2,341.00 \$ 389.92 \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64 982,467.40	0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$	5 5,990.65 \$ 5 967.72 5 1,173.71 6 2,279.97 6 984.37 6 584.88 7 6 5,990.65 7 7 7 7 7 7 7 7 7				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct 05573-4622 1 each each each each each each each each	0 0 0 0 0 cture count: -42DD-0084 for T Excavation (m3) = 164 164 164 164 164 164 164 164 164 164	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19 20 21 22 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA 2. Backfill (m3) = 3.80 2.44 3.45 2.44	91 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ 1,002.72 \$	- \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ \$ 1,674.41 \$ 2,791.30 \$ 3,458.97 \$ 2,341.00 \$ 389.92 \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64 	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	5 5,990.65 \$ 5 967.72 5 1,173.71 6 2,279.97 6 984.37 6 584.88 7 6 5,990.65 7 7 7 7 7 7 7 7 7				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struc 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19 20 21 22 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA 2. Backfill (m3) = 3.80 2.44 3.45 2.44	91 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ \$ 959.25 \$ \$ 1,143.76 \$ \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ \$ - \$ \$ \$ \$ 194.96 \$ \$ \$ - \$ \$ \$ \$ \$ 1,002.72 \$ \$	- \$ 16,602.90 \$ \$ 16,602.90 \$ \$ \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ \$ \$ 1,674.41 \$ 2,791.30 \$ 3,458.97 \$ 2,341.00 \$ 389.92 \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64 982,467.40	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5 5,990.65 \$ 5 967.72 5 1,173.71 6 2,279.97 7 984.37 7 584.88 7 -				20,812.03
09	S1-C9 Assembly and Installation of Found S1-C9 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C10 Assembly and Installation of Foundati Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	2866 2866 ndation Types A2 ation Types A2-1A	IA (250 kPa) as per 250 kPa) as per Dwg 50 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct 05573-4622 1 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164 Fower Types A1. 92 17 19 20 21 22 Tower Types A2 130 17 19 20 21 22 21 22	Backfill (m3) = 2.19 1.03 2.27 1.03 3.00 EA 2. Backfill (m3) = 3.80 2.44 3.45 2.44	91 \$ 441.04 \$ 1,143.76 \$ 1,002.72 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ 1,002.72 \$	967.72 \$ 16,602.90 \$ \$ 967.72 \$ 1,173.71 \$ 2,279.97 \$ 984.37 \$ 584.88 \$ - \$ - \$ 5,990.65 \$ \$ 1,674.41 \$ 2,791.30 \$ 3,458.97 \$ 2,341.00 \$ 389.92 \$ - \$ - \$	982,467.40 158,706.75 192,488.81 373,915.08 161,436.11 95,920.64 	0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	5 5,990.65 \$ 5 967.72 5 1,173.71 6 2,279.97 7 984.37 7 584.88 7 -				20,812.03



Į.	NALCOR 350 kV HVdc Line Construc	ction Front 3 (N	ewfoundland)					Crew Cost						Total Unit Cost		
ent					Units	1	Hours per			.	l			Manhours and	L	
Į,	Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
									_	702 (22 -	_	0.555.55			•	00.00-
	S1-C11 Assembly and Installation of Four					121 T T 10	EA		\$	733,133.92	\$	6,058.96 \$	168.54	\$ 6,227.50	\$	20,393
;	S1-C11 Assembly and Installation of Founda	ation Types A3-1A	(250 kPa) as per Dwg :	005573-4622	2-42DD-0084 for	Tower Types A3	•									
	Steel Weight (lb) =	3483	Granular (m3) =	2	Excavation (m3) =	106	Backfill (m3) =	104								
	Haul	0400	Foundation Haul	each	121			\$ 441.04 \$	640.12 \$	77,454.68	121 \$	640.12				
_	Excavate		Found Excavation	each	121		1.18	\$ 1,143.76 \$	1,345.45 \$	162,799.18						
_	Install		Grillage Installation	each	121		2.55	\$ 1,002.72 \$	2,555.07 \$	309,163.51						
ī	Backfill & Compact		Backfill and Compact	each	121	21	1.18	\$ 959.25 \$	1,128.40 \$	136,536.07						
1	Cleanup		Site Cleanup	each	121	22	2.00	\$ 194.96 \$	389.92 \$	47,180.48						
				each	121			\$ - \$	- \$	-	121 \$					
				each	121			\$ - \$	- \$	-	121 \$					
L				each	121			\$ - \$	- \$	-	121 \$					
								\$	6,058.96 \$	733,133.92	\$	6,058.96				
_															•	
2	S1-C12 Assembly and Installation of Four	ndation Types A4-	1A (250 kPa) as per	Total struc	cture count:	<u> </u>	EA		\$	-	\$	7,891.04 \$	246.96	\$ 8,138.00	\$	
;	S1-C12 Assembly and Installation of Founda	ation Types A4-1A	(250 kPa) as per Dwg :	005573-4622	2-42DD-0084 for	Tower Types A4	-									
	Steel Weight (lb) =	5512	Granular (m3) =	2	Excavation (m3) =	130	Backfill (m3) =	127								
_	Haul	0012	Foundation Haul	each	0	_	` ′	\$ 441.04 \$	1,012.85 \$	-	0 \$	-				
	Excavate		Found Excavation	each	0		1.44	\$ 1,143.76 \$		_	0 \$					
	Install		Grillage Installation	each	0		3.45	\$ 1,002.72 \$		-	0 \$					
r	Backfill & Compact		Backfill and Compact	each	0	21	1.44	\$ 959.25 \$		-	0 \$	-				
	Cleanup		Site Cleanup	each	0	22	2.00	\$ 194.96 \$	389.92 \$	=	0 \$	=				
(Olcanup				_			\$ - \$	- \$	-	0 \$	-				
[Olcanup			each	0			*								
-	Отеанир			each	0			\$ - \$	- \$	_	0 \$					
[Осапир							\$ - \$ \$ - \$	- \$		0 \$					
-	Осапир			each				\$ - \$ \$ - \$			0 \$					
			44 (959 LB.)	each each	0	0.525673582	- A - C	\$ - \$ \$ - \$	- \$	-	0 \$	-	004.40	.		0.704
3 3	S1-C13 Assembly and Installation of Four	ndation Types B1	-1A (250 kPa) as per	each each Total struc	0 0 cture count:	0.525673582	EA	\$ - \$ \$ - \$	- \$	-	0 \$	-	264.42	\$ 8,427.75	\$	3,701
3 3		ndation Types B1- ation Types B1-1A	- 1A (250 kPa) as per (250 kPa) as per Dwg !	each each Total struc	0 0 cture count:	0.525673582		\$ - \$ \$ - \$	- \$	-	0 \$	-	264.42	\$ 8,427.75	\$	3,70°
3 \$	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Foundation	ation Types B1-1A	(250 kPa) as per Dwg	each each Total struc	0 0 0 cture count: 2-42DD-0084 for	0.525673582		\$ - \$	- \$	-	0 \$	-	264.42	\$ 8,427.75	\$	3,70
3 \$	S1-C13 Assembly and Installation of Four	ndation Types B1 - ation Types B1-1A 5754	-1A (250 kPa) as per (250 kPa) as per Dwg ! Granular (m3) =	each each Total struc 505573-4622	0 0 cture count:	0.525673582 14 Tower Types B1 135	Backfill (m3) =	\$ - \$ \$ - \$ \$ \$ \$	- \$ 7,891.04 \$	-	0 \$	8,163.33 \$	264.42	\$ 8,427.75	\$	3,70
3 3	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) =	ation Types B1-1A	(250 kPa) as per Dwg : Granular (m3) =	each each Total struc 505573-4622	0 0 0 cture count: 2-42DD-0084 for Excavation (m3) =	0.525673582 14 Tower Types B1 135 17		\$ - \$ \$	- \$	- - 114,286.60	0 \$	- - 8,163.33 \$ 1,057.42	264.42	\$ 8,427.75	\$	3,70
3 \$	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) =	ation Types B1-1A	(250 kPa) as per Dwg s Granular (m3) =	each each Total struc 505573-4622 2 each	0 0 0 0 0 0 0 0 0 0 0 2-42DD-0084 for Excavation (m3) =	0.525673582 14 Tower Types B1 135 17 19	Backfill (m3) = 2.40 1.50	\$ - \$ \$ \$ 441.04 \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$	- - 114,286.60 14,803.82	0 \$ \$ \$ 14 \$ 14 \$	- - - 8,163.33 \$ 1,057.42 1,712.61	264.42	\$ 8,427.75	\$	3,70
3 \$\frac{1}{2}	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate	ation Types B1-1A	(250 kPa) as per Dwg 5 Granular (m3) = Foundation Haul Found Excavation	each each Total struc 505573-4622 each each	0 0 0 0 0 0 0 0 0 0 0 2-42DD-0084 for Excavation (m3) =	0.525673582 14 Tower Types B1 135 17 19 20 21	Backfill (m3) = 2.40 1.50	\$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$	114,286.60 14,803.82 23,976.59	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 8,163.33 \$ 1,057.42 1,712.61 3,567.05	264.42	\$ 8,427.75	\$	3,70
3 3	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install	ation Types B1-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total struc 505573-4622 2 each each each	0 0 0 2-ture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40 1.50 3.56	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$	114,286.60 14,803.82 23,976.59 49,938.65	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 8,163.33 \$ 1,057.42 1,712.61 3,567.05 1,436.33 389.92	264.42	\$ 8,427.75	\$	3,70′
3 3	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	ation Types B1-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-462: 2 each each each each each each	Excavation (m3) = 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,057.42 1,712.61 3,567.05 1,436.33 389.92	264.42	\$ 8,427.75	\$	3,70
3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	ation Types B1-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-4622 each each each each each each each	Eture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,057.42 1,712.61 3,567.05 1,436.33 389.92	264.42	\$ 8,427.75	\$	3,70
3 : : 	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	ation Types B1-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-462: 2 each each each each each each	Excavation (m3) = 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	264.42	\$ 8,427.75	\$	3,70
3 3	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact	ation Types B1-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-4622 each each each each each each each	Eture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,057.42 1,712.61 3,567.05 1,436.33 389.92	264.42	\$ 8,427.75	\$	3,70
3 \$ 1	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup	ation Types B1-1A 5754	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struct 505573-4622 each each each each each each each eac	0 0 0 0 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$	- - - - - - - - - - - - - - - - - - -				3,70
3 \$\frac{1}{2} \rightarrow{1}{	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four	ation Types B1-1A 5754 ndation Types B2-	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struc 505573-4622 each each each each each each each Total struc	0 0 0 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -		\$ 8,427.75 \$ 17,972.92		3,70
3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup	ation Types B1-1A 5754 ndation Types B2-	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struc 505573-4622 each each each each each each each eac	0 0 0 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22	Backfill (m3) = 2.40	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$	- - - - - - - - - - - - - - - - - - -				3,70
3 \$\frac{1}{2} \\ \fr	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Foundation	ndation Types B2-1A	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg	each each Total struc 505573-4622 each each each each each each each Total struc	Eture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 2-42DD-0003 for	0.525673582 14 Tower Types B1 135 17 19 20 21 22 0 Tower Types B2	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$	- - - - - - - - - - - - - - - - - - -				3,70
3 3 5 5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Founda Steel Weight (lb) =	ation Types B1-1A 5754 ndation Types B2-	Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup	each each Total struc 505573-4622 each each each each each each each eac	0 0 0 0 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 14 15 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) =	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ 8,163.33 \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 114,286.60	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				3,70
3 \$\frac{1}{2} \\ \fr	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Founda Steel Weight (lb) = Haul	ndation Types B2-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg s Granular (m3) = Foundation Haul	each each Total struc 505573-4622 each each each each each each each 505573-4622 4 each	0 0 0 0 2-ture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14 14 14 14 14 14 14 1	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) = 4.51	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ \$ \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ 8,163.33 \$ \$ \$ \$ \$ \$ 1,989.08 \$	14,803.82 23,976.59 49,938.65 20,108.64 5,458.90	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				3,70
3 %	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Founda Steel Weight (lb) =	ndation Types B2-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation	each each Total struc 505573-4622 each each each each each each each eac	0 0 0 0 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 14 15 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17 19	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) =	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ 8,163.33 \$ \$ 1,989.08 \$ 5,650.95 \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				3,70
3 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Foundar Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Foundar Steel Weight (lb) = Haul Excavate Install Excavate Install Installation of Foundar Steel Weight (lb) = Haul Excavate Install	ndation Types B2-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per (250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total struc 505573-4622 each each each each each each each eac	0 0 0 0 2-ture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14 14 14 14 14 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17 19 20	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) = 4.51 4.94	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$ 8,163.33 \$ \$ 1,989.08 \$ 5,650.95 \$ 4,756.86 \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 114,286.60	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					3,70
3 % % % % % % % % % % % % % % % % % % %	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Foundate Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Foundate Steel Weight (lb) = Haul Excavate	ndation Types B2-1A	(250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per Dwg s Granular (m3) = Foundation Haul Found Excavation	each each Total struc 505573-4622 each each each each each each each eac	Cture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14 14 15 14 16 17 18 19 19 10 10 10 10 10 10 10 10	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17 19 20 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) = 4.51 4.94 4.74	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ 8,163.33 \$ \$ 1,989.08 \$ 5,650.95 \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 114,286.60	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					3,70
3 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	ndation Types B2-1A	Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per (250 kPa) as per Dwg Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-4622 each each each each each each each eac	Eture count: 2-42DD-0084 for Excavation (m3) = 14 14 14 14 14 14 14 14 15 14 14	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17 19 20 21 20 21 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ \$ \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$ 8,163.33 \$ \$ \$ \$ \$ 1,989.08 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 114,286.60	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,163.33 \$ 1,057.42 1,712.61 3,567.05 1,436.33 389.92 8,163.33 17,526.14 \$				3,70
3 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	ndation Types B2-1A	Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per (250 kPa) as per Dwg Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-4622 each each each each each each each eac	Excavation (m3) = Count	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17 19 20 21 20 21 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ - \$ 8,163.33 \$ \$ 1,989.08 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 114,286.60	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					3,70
3 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S1-C13 Assembly and Installation of Four S1-C13 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup S1-C14 Assembly and Installation of Four S1-C14 Assembly and Installation of Founda Steel Weight (Ib) = Haul Excavate Install Backfill & Compact	ndation Types B2-1A	Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact Site Cleanup -1A (250 kPa) as per (250 kPa) as per (250 kPa) as per Dwg Granular (m3) = Foundation Haut Found Excavation Grillage Installation Backfill and Compact	each each Total struc 505573-4622 each each each each each each each eac	Excavation (m3) = Count	0.525673582 14 Tower Types B1 135 17 19 20 21 22 Tower Types B2 355 17 19 20 21 20 21 21 22	Backfill (m3) = 2.40 1.50 3.56 1.50 2.00 EA Backfill (m3) = 4.51 4.94 4.74 4.94	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 7,891.04 \$ \$ \$ \$ 1,057.42 \$ 1,712.61 \$ 3,567.05 \$ 1,436.33 \$ 389.92 \$ - \$ - \$ 8,163.33 \$ \$ \$ 1,989.08 \$ 5,650.95 \$ 4,756.86 \$ 4,739.33 \$ 389.92 \$ - \$ \$ - \$ \$ - \$ \$ - \$ - \$ - \$ - \$ - \$	114,286.60 14,803.82 23,976.59 49,938.65 20,108.64 5,458.90 114,286.60	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					3,70



NALCOR 350 kV HVdc Line Co	onstruction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost		
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
Doosilpaon			Total	OICW NO.	unit	Hourly Nate	Offit Gost	Gubtotai	OTILO	Onit Cost	Materiale	Wateriale	rotal Materiale	
	of Foundation Types C1-1 (100 kPa) as per		cture count:	96	EA		\$	1,385,171.15	\$	14,428.87 \$	471.41	\$ 14,900.27	\$	45,255
S1-C15 Assembly and Installation of	Foundation Types C1-1 (100 kPa) as per Dw	j 505573-4622	-42DD-0003 for 10	ower Types C1										
Steel Weight (lb) =	8752 Granular (m3) =	4	Excavation (m3) =	365	Backfill (m3) =	361								
Haul	Foundation Haul	each	96	17	3.65	\$ 441.04 \$		154,406.99		1,608.41				
Excavate	Found Excavation	each	96	19	4.06	\$ 1,143.76 \$	1,000	445,363.97	96 \$	4,639.21				
Install Backfill & Compact	Grillage Installation	each	96	20 21	3.89	\$ 1,002.72 \$	-/	374,450.83		3,900.53				
Cleanup	Backfill and Compact Site Cleanup	each each	96 96	22	4.06 2.00	\$ 959.25 \$ \$ 194.96 \$	-, ,	373,516.92 37,432.44		3,890.80 389.92				
Clearup	Site Cleanup	each	96		2.00	\$ - \$			96 \$	- 309.92				
		each	96			\$ - \$		-	96 \$	-				
		each	96			\$ - \$	- \$	-	96 \$	-				
		•	•		•	\$	14,428.87 \$	1,385,171.15	\$	14,428.87				
S1 C16 Assembly and Installation	of Foundation Types C2 1 (100 kPs) as nor	Total stru	cture count:	0	EA		\$		\$	19,948.00 \$	577.46	\$ 20,525.46	e e	
	of Foundation Types C2-1 (100 kPa) as per Foundation Types C2-1 (100 kPa) as per Dwg						ā		Ψ	19,946.00	377.40	Φ 20,323.40	• •	
or oroneosmony and metallation of	Todination Types 62 T (100 M a) as por 5M	9 000010 1022	1200 0000 101 10	7. 1 ypoo 02	•									
Steel Weight (lb) =	10252 Granular (m3) =	5	Excavation (m3) =	409	Backfill (m3) =	404								
Haul	Foundation Haul	each	0	17		\$ 441.04 \$	7		0 \$	-				
Excavate	Found Excavation	each	0	<u>19</u>	5.55	\$ 1,143.76 \$			0 \$	-				
Install Backfill & Compact	Grillage Installation	each each	0	20 21	5.56 5.55	\$ 1,002.7 2 \$ 9 59.25 \$		-	0 \$	-				
Dackilli & Collipact	Backfill and Compact			22	2.00	\$ 194.96 \$			0 \$	-				
Cleanup	Site Cleanup	i each	0						Ο Ψ					
Cleanup	Site Cleanup	each each	0		2.00	\$ - \$	- \$	-	0 \$	-				
Cleanup	Site Cleanup	each each		22	2.00	\$ - \$ \$ - \$		-	0 \$	-				
Cleanup	Site Cleanup	each	0	22	2.00		- \$	-						
Cleanup	Site Cleanup	each each	0	22	2.00	\$ - \$	- \$	-	0 \$	-				
		each each each	0 0			\$ - \$	- \$ - \$ 19,948.00 \$	- - -	0 \$ 0 \$	- - -				
S1-C17 Assembly and Installation	of Foundation Types D1-1 (100 kPa) as per	each each each	0 0 0	112	EA	\$ - \$	- \$ - \$	- - -	0 \$ 0 \$	-	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation		each each each	0 0 0	112	EA	\$ - \$	- \$ - \$ 19,948.00 \$	- - -	0 \$ 0 \$	- - -	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation	of Foundation Types D1-1 (100 kPa) as per	each each each	0 0 0	112	EA	\$ - \$	- \$ - \$ 19,948.00 \$	- - -	0 \$ 0 \$	- - -	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation of	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw	each each each Total struct 505573-4622	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112 ower Types D1	EA . Backfill (m3) = 4.59	\$ - \$ \$ - \$ \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$	2,053,413.00 226,878.45	0 \$ 0 \$ \$ \$ \$ \$	- - - 18,334.04 \$	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (Ib) = Haul Excavate	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw 11023 Granular (m3) =	each each Total struct 505573-4622 6 each each each	Cture count: -42DD-0003 for To Excavation (m3) = 112 112	112 ower Types D1 428 17 19	EA	\$ - \$ \$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$	2,053,413.00 226,878.45 609,328.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ 112 \$ \$ 112 \$	- - - - 18,334.04 \$ 2,025.70 5,440.43	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw 11023 Granular (m3) =	each each Total struct 505573-4622 6 each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112 ower Types D1 428 17 19 20	EA Backfill (m3) = 4.59 4.76 5.90	\$ - \$ \$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$	2,053,413.00 226,878.45 609,328.18 662,505.11	0 \$ 0 \$ \$ \$ \$ \$ \$ 112 \$ 112 \$ 112 \$	2,025.70 5,440.43 5,915.22	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwi 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each Total struct 505573-4622 6 each each each each each	Excavation (m3) = 112 112 112	112 ower Types D1 428 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76	\$ - \$ \$ - \$ \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ 112 \$ 112 \$ 112 \$ 112 \$	2,025.70 5,440.43 5,915.22 4,562.77	624.60	\$ 18,958.64	\$	69,95
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwo 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each Total struct 505573-4622 6 each each each each each each each	Excavation (m3) = 112 112 112 112 112	112 ower Types D1 428 17 19 20	EA Backfill (m3) = 4.59 4.76 5.90	\$ - \$ \$ - \$ \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92	624.60	\$ 18,958.64	\$	69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwi 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct 505573-4622 6 each each each each each each each	Excavation (m3) = 112 112 112 112 112 112	112 ower Types D1 428 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76	\$ - \$ \$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ - \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92	624.60	\$ 18,958.64	\$	69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwi 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total strue g 505573-4622 6 each each each each each each each each	Excavation (m3) = 112 112 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76	\$ - \$ \$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92	624.60	\$ 18,958.64	\$	69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwi 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct 505573-4622 6 each each each each each each each	Excavation (m3) = 112 112 112 112 112 112	112 ower Types D1 428 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76	\$ - \$ \$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ - \$	226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92	624.60	\$ 18,958.64	\$	69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwi 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total strue g 505573-4622 6 each each each each each each each each	Excavation (m3) = 112 112 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76	\$ - \$ \$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ - \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92	624.60	\$ 18,958.64	\$	69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwith 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backtill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per	each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = 112	112 ower Types D1 428 17 19 20 21 22	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00	\$ - \$ \$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ - \$	226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (Ib) = Haul Excavate Install Backfill & Compact Cleanup	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwg 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backtill and Compact Site Cleanup	each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = 112	112 ower Types D1 428 17 19 20 21 22	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00	\$ - \$ \$ - \$ \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 18,334.04 \$ 2,025.70 5,440.43 5,915.22 4,562.77 389.92 - - - - 18,334.04				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw. 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dw.	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = Excavation (m3) = 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21 22	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA	\$ - \$ \$ - \$ \$ 422 \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ \$ 19,948.00 \$ \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 18,334.04 \$ 2,025.70 5,440.43 5,915.22 4,562.77 389.92 - - - - 18,334.04				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) =	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw. 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dw. 11685 Granular (m3) =	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = Excavation (m3) = Excavation (m3) = Excavation (m3) = 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21 22 0 ower Types D2 452	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) =	\$ - \$ \$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18 	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92 				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw. 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dw. 11685 Granular (m3) = Foundation Haul	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = 112 112 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21 22 0 ower Types D2 452 17	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87	\$ - \$ \$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18 	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul Excavate	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw. 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dw. 11685 Granular (m3) = Foundation Haul Found Excavation	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = Excavation (m3) = Excavation (m3) = Excavation (m3) = 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21 22 0 ower Types D2 452 17	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87 6.02	\$ - \$ \$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,143.76 \$	- \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$ \$ \$ 2,588.28 \$ 6,883.54 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18 	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92 				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw. 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dw. 11685 Granular (m3) = Foundation Haul	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = 112 112 112 112 112 112 112 112 112 1	112 ower Types D1 428 17 19 20 21 22 0 ower Types D2 452 17	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87 6.02 6.19	\$ - \$ \$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ 19,948.00 \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$ 2,588.28 \$ 6,883.54 \$ 6,209.97 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18 	0 \$ 0 \$ 5 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$ 112 \$	- - - - - - - - - - - - - - - - - - -				69,9
S1-C17 Assembly and Installation of S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dw. 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dw. 11685 Granular (m3) = Foundation Haul Found Excavation Grillage Installation	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = 112 112 112 112 112 112 112 112 112 1	112 ower Types D1. 428 17 19 20 21 22 ower Types D2 452 17 19 20	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87 6.02	\$ - \$ \$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$	- \$ 19,948.00 \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$ \$ \$ 2,588.28 \$ 6,883.54 \$ 6,209.97 \$ 5,773.07 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18 	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				69,9
S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwy 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dwy 11685 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct g 505573-4622 6 each each each each each each each each	Excavation (m3) = 112 112 112 112 112 112 112 112 112 1	112 ower Types D1. 428 17 19 20 21 22 ower Types D2 452 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87 6.02 6.19 6.02	\$ - \$ \$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,1002.72 \$ \$ 959.25 \$	- \$ 19,948.00 \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$ \$ 2,588.28 \$ 6,883.54 \$ 6,209.97 \$ 5,773.07 \$ 389.92 \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -				69,9
S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwy 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dwy 11685 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct 505573-4622 6 each each each each each each each each	Excavation (m3) = Continue count:	112 ower Types D1. 428 17 19 20 21 22 ower Types D2 452 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87 6.02 6.19 6.02	\$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 194.96 \$ \$ - \$ \$ 445 \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 19,948.00 \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$ \$ 2,588.28 \$ 6,883.54 \$ 6,209.97 \$ 5,773.07 \$ 389.92 \$ - \$ - \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ 112 \$	- 18,334.04 \$ 2,025.70				69,9
S1-C17 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install & Compact Cleanup S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of S1-C18 Assembly and Installation of Steel Weight (lb) = Haul Excavate Install Backfill & Compact	of Foundation Types D1-1 (100 kPa) as per Foundation Types D1-1 (100 kPa) as per Dwy 11023 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact Site Cleanup of Foundation Types D2-1 (100 kPa) as per Foundation Types D2-1 (100 kPa) as per Dwy 11685 Granular (m3) = Foundation Haul Found Excavation Grillage Installation Backfill and Compact	each each each Total struct g 505573-4622 6 each each each each each each each each	Excavation (m3) = 112	112 ower Types D1. 428 17 19 20 21 22 ower Types D2 452 17 19 20 21	EA Backfill (m3) = 4.59 4.76 5.90 4.76 2.00 EA Backfill (m3) = 5.87 6.02 6.19 6.02	\$ - \$ \$ 441.04 \$ \$ 1,143.76 \$ \$ 194.96 \$ \$ - \$ \$ 445 \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,143.76 \$ \$ 1,002.72 \$ \$ 959.25 \$ \$ 194.96 \$ \$ - \$	- \$ 19,948.00 \$ 19,948.00 \$ \$ 2,025.70 \$ 5,440.43 \$ 5,915.22 \$ 4,562.77 \$ 389.92 \$ - \$ - \$ 18,334.04 \$ \$ 2,588.28 \$ 6,883.54 \$ 6,209.97 \$ 5,773.07 \$ 389.92 \$ - \$ - \$	2,053,413.00 226,878.45 609,328.18 662,505.11 511,030.07 43,671.18	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,025.70 5,440.43 5,915.22 4,562.77 389.92 				69,9



C19 S1-C S1-C Stee Haul Exca Insta Back	escription -C19 Assembly and Installation of Four -C19 Assembly and Installation of Founda		Units Total	Crew No.	Hours per							Manhours and		
C19 S1-C S1-C Stee Haul Exca Insta Back	-C19 Assembly and Installation of Four		Total	Crew No.	14									
S1-C Stee Haul Exca Insta Back	-C19 Assembly and Installation of Four	1.0. T. 54.44001D.)		Olow Ho.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
S1-C Stee Haul Exca Insta Back	-C19 Assembly and Installation of Foundard -C19 Assembly and Installation of Foundard		Total atmostoms a south				•	400 500 40	•	04 005 40	* 750.00	* 00 004 04	•	45 400
Stee Haul Exca Insta Back	-C 19 Assembly and installation of Founda	ndation Types E1-1 (100 kPa) as per	Total structure count:	20	EA		\$	432,502.46	\$	21,625.12	\$ 756.68	\$ 22,381.81	\$	15,133
Haul Exca Insta Back		alion Types E1-1 (100 kPa) as per Dwg 5	005573-4622-42DD-0003 10r	rower rypes ⊑ r.										
Haul Exca Insta Back	eel Weight (lb) =	13448 Granular (m3) =	7 Excavation (m3) =	480	Backfill (m3) =	473								
Exca Insta Back		Foundation Haul	each 20		5.60		2,471.35 \$	49,427.09	20 \$	2,471.35				
Insta Back	cavate	Found Excavation	each 20		5.83			133,457.10	20 \$	6,672.85				
		Grillage Installation	each 20			\$ 1,002.72 \$		129,892.32	20 \$	6,494.62				
Clea	ickfill & Compact	Backfill and Compact	each 20		5.83	\$ 959.25 \$	5,596.38 \$	111,927.52	20 \$	5,596.38				
	eanup	Site Cleanup	each 20	22	2.00	\$ 194.96 \$	389.92 \$	7,798.43		389.92				
			each 20			\$ - \$	- \$	-	20 \$	-				
			each 20			\$ - \$		-	20 \$	<u>-</u>				
<u> </u>			each 20			\$ - \$			20 \$	-				
						\$	21,625.12 \$	432,502.46	\$	21,625.12				
													_	
20 S1-C	-C20 Uplift testing per leg for Types C1	-1, or D2-1, or E1-1 (100 kPa) as per	Total structure count:	6	EA		\$		\$	-	\$ -	\$ -	\$	
S1-C	-C20 Uplift testing per leg for Types C1-1	, or D2-1, or E1-1 (100 kPa) as per techr	ical specification for Lower L	ypes C1, or D2, o	or E1.									
Not	ot included		each 6			- \$	- \$		6 \$					
NOL	ot included		each 6			\$ - \$			6 \$	-				
<u> </u>			each 6			\$ - \$			6 \$					
			each 6			\$ - \$		-	6 \$					
-			each 6			\$ - \$		_	6 \$	_				
_			each 6				- \$	_	6 \$	_				
			each 6			\$ - \$		-	6 \$	_				
			each 6	i		\$ - \$	- \$		6 \$	-				
			each 6	i		\$ - \$	- \$	-	6 \$	-				
			each 6			\$ - \$	- \$	-	6 \$	-				
			each 6			\$ - \$	- \$	-	6 \$	_				
						\$	- \$	-	\$	-				
21 S1-C	-C21 Downward, uplift, and lateral load	I testing per leg for Types C1-3, or D2-	Total structure count:	6	EA		\$	-	\$	-	\$ -	\$ -	\$	
S1-C	-C21 Downward, uplift, and lateral load te	esting per leg for Types C1-3, or D2-3, or	E1-3 as per technical specific	ation for Tower T	Гуре s C1, o r D2, o	or E1.								
Not i	ot included		each 6			\$ - \$		=	6 \$	-				
			each 6			\$ - \$		-	6 \$	-				
			each 6			\$ - \$		-	6 \$	-				
			each 6			\$ - \$		=	6 \$	-				
<u> </u>			each 6		T	\$ - \$		-	6 \$	-				
<u> </u>			each 6			\$ - \$		-	6 \$	-				
<u> </u>			each 6			\$ - \$		-	6 \$	-				
<u> </u>			each 6			\$ - \$	·	-	6 \$	-				
<u> </u>			each 6			\$ - \$		-	6 \$	-				
<u> </u>			each 6			\$ - \$		-	6 \$	-				
<u> </u>			each 6			\$ - \$ \$		-	6 \$	-				
						\$	- \$	-	\$	-				



	NALCOR 350 kV HVdc Line Const	ruction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost		
Payment				Units		Hours per							Manhours and		
Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V-H10	Rock Foundations								•						
V::C22	S1-C22 Assembly and Installation of Fo	oundation Type A1-2 as per Dwg 505573	- Total struct	ture count:	211	EA			\$ 2,976,829.27	7 \$	14,108.20 \$	1,909.69	\$ 16,017.89	\$	402,944.59
	S1-C22 Assembly and Installation of Four														
	Pad: 1.9m x 1.9m x 0.4m Concrete (m3) = 1.66	Steel Weight (lb) Grout (l) 1778 30.6	Rebar (kg) 56.7	Excavation (m3)			,	Hole Dia. (mm)							
	Haul		each	82.7 211	81.1 17	4.00 1.54	3.0	50.0 04 \$ 679.65	¢ 1/2 /06 21	211 \$	679.65				
	Excavate	Foundation Haul Found Excavation	each	211	19	1.42	\$ 1,143.7		\$ 342,503.30		1,623.24				
	Prepare Rock Surface	Found Excavation	each	211	19	2.50	\$ 1,143.7				2,859.40				
	Rock drill Setup	Rock Foundations	each	211	36	1.00	\$ 920.2		\$ 194,162.99		920.20				
	Install Footing, Form and Pour base	Concrete Foundations	each	211	24	4.39	\$ 935.6				4,104.74				
	Backfill & Compact	Backfill and Compact	each	211	21	2.90		25 \$ 2,782.54	\$ 587,116.73		2,782.54				
	Cleanup	Site Cleanup	each	211	22	2.00	\$ 194.9				389.92				
	Heat and Hoard	Concrete Foundations	each	211	24	0.80	\$ 935.6	3 \$ 748.50	\$ 157,933.71	1 211 \$	748.50				
			each	211			\$ -	\$ -	\$ -		-				
			each	211			\$ -	\$ -	\$ -	211 \$	-				
			each	211			-		\$ -	211 \$	-				
				ļ				\$ 14,108.20	\$ 2,976,829.27	\$	14,108.20				
									•		40 400 04	0.700.44	A 40.400.75	•	
V::C23	S1-C23 Assembly and Installation of Fo	oundation Type A2-2 as per Dwg 505573	- I otal struct	ture count:	0	EA			\$ -	\$	16,400.34 \$	2,798.41	\$ 19,198.75	\$	-
	S1-C23 Assembly and Installation of Four Pad: 2.3m x 2.3m x 0.4m Concrete (m3) =				4∠ BackFill Vol(m3)	#Amahar Halas	Hole Depth (m)	Hala Dia (mm)							
	2.43	Steel Weight (lb) Grout (l) 2107 100.1	Rebar (kg) 75.8	91.6	89.2	#Anchor Holes 4.00	5.0	Hole Dia. (mm)							
	Haul	Foundation Haul	each	91.0	17	1.48		04 \$ 651.87	\$ -	0 \$	-				
	Excavate	Foundation Haul	each	0	19	1.52	\$ 1,143.				-				
	Prepare Rock Surface	Found Excavation	each	0		3.50		76 \$ 4,003.16		0 \$	-				
	Rock drill Setup	Rock Foundations	each	0	36	1.00	\$ 920.2			0 \$	-				
	Install Footing, Form and Pour base	Concrete Foundations	each	0	24	5.43		5,081.59	\$ -	0 \$	-				
	Backfill & Compact	Backfill and Compact	each	0	21	2.99	\$ 959.2	25 \$ 2,868.98	\$ -	0 \$	-				
	Cleanup	Site Cleanup	each	0	22	2.00	\$ 194.9		\$ -	0 \$	-				
	Heat and Hoard	Concrete Foundations	each	0	24	0 .80	\$ 935.6	3 \$ 748.50	\$ -	0 \$	-				
			each	0			\$ -	-	\$ -	0 \$	-				
			each	0			-	\$ -	\$ -	- T	-				
			each	0			-	\$ -	\$ -	0 \$	-				
								\$ 16,400.34	\$ -	\$	=				
VC24	C4 C24 Assembly and Installation of Fa	oundation Time A2 2 on non Diver F0FF72	Total atrus	ture count.	154	EA			\$ 2,172,662.12	2 \$	14,108.20 \$	1,909.69	\$ 16,017.89	•	294,092.26
V::C24	S1-C24 Assembly and Installation of For S1-C24 Assembly and Installation of Four	oundation Type A3-2 as per Dwg 505573. Adation Type A3-2 as per Dwg 505573.463	- 10tal Struct 22-42DD-0074	for Tower Type 4		EA			Ψ 2,172,002.12	Ф	14,100.20 \$	1,303.69	φ 10,017.89	_ Φ	234,032.20
	Pad: 1.9m x 1.9m x 0.4m Concrete (m3) =	Steel Weight (lb) Grout (l)			BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	1.66	1778 30.6	56.7	82.7	81.1	4.00	3.0	50.0							
	Haul	Foundation Haul	each	154		1.54		04 \$ 679.65	\$ 104,666.22	2 154 \$	679.65				
	Excavate	Found Excavation	each	154	19	1.42	\$ 1,143.		\$ 249,978.71		1,623.24				
	Prepare Rock Surface	Found Excavation	each	154	19	2.50	\$ 1,143.7	76 \$ 2,859.40	\$ 440,347.43	3 154 \$	2,859.40				
	Rock drill Setup	Rock Foundations	each	154		1.00	\$ 920.2				920.20				
	Install Footing, Form and Pour base	Concrete Foundations	each	154		4.39	\$ 935.6	,		1 154 \$	4,104.74				
	Backfill & Compact	Backfill and Compact	each	154		2.90	\$ 959.2			1 154 \$	2,782.54				
	Cleanup	Site Cleanup	each	154		2.00		96 \$ 389.92			389.92				
	Heat and Hoard	Concrete Foundations	each	154		0.80		3 \$ 748.50	_		748.50				
			each	154 154			\$ -		\$ -		-				
			each each	154		4	\$ - ¢	-	\$ - \$ -		-				
			eacii	134			-	\$ 14,108.20	т		14,108.20				
								Ψ 17,100.20	2,172,002.12	- Ψ	14,100.20				



N	ALCOR 350 kV HVdc Line Constr	ruction Front 3 (N	Newfoundland)					Cr	rew Cost						Total Unit Cost		
vment		- (/		Units		Hours per								Manhours and		
m De	escription				Total	Crew No.	unit	Hourl	y Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
							•						•				
	1-C25 Assembly and Installation of Fo					0	EA				\$ -	\$	16,488.55	\$ 2,798.41	\$ 19,286.96	6 \$	
	1-C25 Assembly and Installation of Foun		s per Dwg 505573-46	22-42DD-0074	for Tower Type	A4											
Pa	ad: 2.3m x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	, ,	BackFill Vol(m3)	#Anchor Holes	. , ,		Hole Dia. (mm)							
	2.43	2107	100.1	75.8	91.6	89.2	4.00	5.	.0	70.0							
	aul		Foundation Haul	each	0		1.68	\$	441.04			7 7	-				
	xcavate		Found Excavation	each	0		1.52	\$		\$ 1,736.12			-				
	repare Rock Surface		Found Excavation	each	0		3.50	\$		\$ 4,003.16	\$ -		-				
	ock drill Setup		Rock Foundations	each	0		1.00	\$		\$ 920.20	\$ -		-				
	stall Footing, Form and Pour base		Concrete Foundations	each	0		5.43	\$		\$ 5,081.59	\$ -		-				
	ackfill & Compact		Backfill and Compact	each	0		2.99	\$		\$ 2,868.98	\$ -		-				
	leanup		Site Cleanup	each	0		2.00	\$	10 110	\$ 389.92	\$ -		-				
He	eat and Hoard		Concrete Foundations	each	0		0.80	\$		\$ 748.50			-				
-				each	0			\$		\$ - \$ -	\$ - \$ -						
<u> </u>				each each	0			Ф Ф		T			_				
				eacn	0			D		\$ 16,488.55			-				
										φ 10,400. 33	Ф -	Φ	-				
26 S1	1-C26 Assembly and Installation of Fo	undation Type R1-	-2 as nor Dwg 505571	2. Total struc	cture count:	19	EA				\$ 306,578.	64 \$	16,135.72	\$ 2,798.41	\$ 18,934.13	2 ¢	53,16
	1-C26 Assembly and Installation of Foun										300,570.	Ψ	10,133.72	2,730.41	Ψ 10,354.13	Ψ	33,10
	ad: 2.3m x 2.3m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)		#Anchor Holes	Hole Depth (m)		Hole Dia. (mm)							
	2.43	2107	100.1	75.8	91.6	89.2	4.00		.0	70.0							
Ha	aul	2101	Foundation Haul	each	T 19		0.88	\$	441.04		\$ 7.357.	66 19 \$	387.25				
	xcavate		Found Excavation	each	19		1.52	\$		\$ 1,736.12			1,736.12				
	repare Rock Surface		Found Excavation	each	19		3.50	\$		\$ 4,003.16			4,003.16				
	ock drill Setup		Rock Foundations	each	19		1.00	\$		\$ 920.20	·		920.20				
	stall Footing, Form and Pour base		Concrete Foundations	each	19		5.43	\$		\$ 5,081.59	\$ 96,550.		5,081.59				
	ackfill & Compact		Backfill and Compact	each	19		2.99	\$		\$ 2,868.98	\$ 54,510.		2,868.98				
	leanup		Site Cleanup	each	19		2.00	\$		\$ 389.92	\$ 7,408.		389.92				
	eat and Hoard		Concrete Foundations	each	19		0.80	\$		\$ 748.50	\$ 14,221.		748.50				
			·	each	19			\$		\$ -	\$ -		-				
				each	19			\$	-	\$ -	\$ -	19 \$	-				
				each	19			\$		\$ -	\$ -		-				
										\$ 16,135.72	\$ 306,578.	\$ \$	16,135.72				
27 S1	1-C27 Assembly and Installation of Fo	oundation Type B2-	-2 as per Dwg 505573	3- Total struc	cture count:	0	EA				\$ -	\$	25,799.22	\$ 2,793.12	\$ 28,592.34	4 \$	
	1-C27 Assembly and Installation of Foun																
Pa	ad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)			Hole Depth (m)		Hole Dia. (mm)							
<u> </u>	2.43	4527	300.2	163.4	224.6	222.2	10.00	6.	.0	70.0	Φ.						
	aul		Foundation Haul	each	0		2.89	\$		\$ 1,272.96			-				
	xcavate		Found Excavation	each	0		0.00	\$,	\$ 3,426.56	\$ -		-				
	repare Rock Surface		Found Excavation	each	0		4.50	\$		\$ 5,146.92	<u>\$</u> -		-				
	ock drill Setup stall Footing, Form and Pour base		Rock Foundations	each	0	-	1.00 10.27	\$		\$ 920.20 \$ 9,607.40	\$ -		-				
	stall Footing, Form and Pour base ackfill & Compact		Concrete Foundations	each ea c h	0		4.47	P		\$ 9,607.40 \$ 4,286.76	\$ -		-				
	•		Backfill and Compact		0		2.00	Ф Ф			\$ - \$ -		-				
	leanup eat and Hoard		Site Cleanup	each each	0		0.80	Ф Ф		\$ 389.92 \$ 748.50							
HE	сатани пояти		Concrete Foundations	each	0		0.80	Ф Ф			\$ -		-				
<u> </u>				each	0			\$		\$ - \$ -	\$ - \$ -		<u>-</u> -				
<u> </u>				each	0			Φ ¢			\$ -		-				
<u> </u>				Eacil	0			Ψ		\$ 25,799.22	Ψ		-				
										Ψ 25,133.22	Ψ -	Φ	-				



Description Description		NALCOR 350 kV HVdc Line Cons	truction Front 3 (N	Newfoundland)					C	rew Cost						Total Unit Cost		
## S1-C24 Assembly and Institution of Foundation Type A1-2 as per Dug 1995/77. Total structure count: ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and Institution of Foundation Type A2-2 as per Dug 1995/77. ## S1-C24 Assembly and	Payment		,	ĺ		Units		Hours per								Manhours and		
## 10-12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	ltem	Description				Total	Crew No.	unit	Hour	ly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
## 10-12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-																	_	
Post Clan Laber Secret (more) Post Projection Post Proje	/::C28											\$ 187,782.9	8 \$	10,432.39	\$ 1,523.52	\$ 11,955.91	\$	27,423.3
The control of the								,										
Heart					(0,	. ,	, ,			,	. ,							
Excession Francisco Geol 10 10 0.58 \$ 1,143,78 \$ 5,556 \$ 1,744,180 \$ 1 \$ 5,556 \$ 1,465,760 \$ 1 \$ 2,556 \$ 1 \$ 2,456 \$ 1 \$ 2,456 \$ 1 \$ 2,456 \$ 1 \$ 2,456 \$ 1 \$ 1,456,760 \$ 1,456,760 \$ 1 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1,456,760 \$ 1			153									¢ 9.44E.0	0 10 0	460.22				
Project Rock Sulface									Φ Φ									
Rock of the Setup									Φ Φ	,		·						
Install Footing, Form and Pour Date									\$									
Each Compact		<u> </u>							\$									
Clearing									\$									
Feel and Hoose									\$				8 18 \$	389.92				
Each 10				·					\$									
StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts StC29 Assembly and Installation of Foundation Type A3-2 as per Dwg 50573 Total structure counts St									\$				18 \$	-				
S1-C29 Assembly and Installation of Foundation Type A22 as per Dwg 905773- Total structure count: S					each	18			\$			\$ -						
St. C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 908573- Total structure count: St. C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 908573- Total structure count: Part 150x 150x 150x 150x 150x 150x 150x 150x					each	18			\$	- :	\$ -	\$ -		_				
Si - C20 Assembly and Installation of Foundation Type A2-2 as per Day 50573-402-24200-0005 for Tower Type A2 (West Surface Rock) Pis 1 5 Sin - C30 New West (18)										;	\$ 10,432.39	\$ 187,782.9	18 \$	10,432.39				
SI-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 50557-402-4420-0068 for Tower Type B2 (Fisher Standard Proper A) - Beat Weight (i)																		
Pat 1.58m t 1.58m	:C29											\$ -	\$	10,892.49	\$ 2,541.85	\$ 13,434.34	\$	-
Figure F				. •														
Haul																		
Excavate		I	304	6.0														
Prepare Rock Surface				Foundation Haul		-			\$									
Rock drill Setup				Found Excavation					\$			*						
Install Footing, Form and Pour base						ŭ			\$			<u> </u>						
Backfill & Compact		<u> </u>							\$			т						
Cleanup		<u> </u>				, ,			\$			<u>-</u>						
Heat and Hoard									\$		1 - 1	T						
C30 S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573- Total structure count: 14									Ф			т.						
Each Gach		neat and noard		Concrete Foundations		, ,		0.00	Φ			т.						
S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573 - Total structure count: S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A3 (Weak Surface Rock) Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = Steel Weight (b) Grout (f) Rebar (kg) Excavation (m3) BackFill Vol(m3)									Ф			Ψ						
## S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573- Total structure count: S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A3 (Weak Surface Rock) Pad: -I. Am x 1 4 m. x 0 M. concrete (m) = Steel Weight (tip) Rober (g) Excavation (m) BackFill (m) BackFil									Φ Φ		,	<u>*</u>						
## S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573 - Total structure count: S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A3 (Weak Surface Rock) Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = Steel Weight (lb) Grout (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor holes Hole Depth (m) Hole Dia. (mm)					Cacii	0			Ψ	_	7	•						
S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-4ZDD-0058 for Tower Type A3 (Weak Surface Rock) Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (kg) Foundation Hule Steel Weight (lib) Grout (l) Rebar (l) Reb											Ψ 10,032.43	Ψ -	Ψ					
S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A3 (Weak Surface Rock) Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = Steel Weight (lib) Grout (l) Rebar (kg) Exevation (m3) BackFill Vol(m3) Back	·C30	S1-C30 Assembly and Installation of E	oundation Type A3-	2 as ner Dwg 50557	3. Total struc	ture count:	14	FΔ				\$ 149 393 7	2 \$	10 670 98	\$ 2,073,68	\$ 12 744 66	\$	29,031.5
Pad: 1.4m x 1.4m x 0.8m Concrete (m3) = Steel Weight (lb) Grout (l) Rebar (kg) Excavation (m3) BackFill Vol (m3) #Anchor Holes Hole Depth (m) Hole Dia (mm)	.000	S1-C30 Assembly and Installation of Fou	Indation Type A3-2 as	s per Dwa 505573-46	322-42DD-0058	for Tower Type						,	_	10,010.00	_,0.0.00	· -,	•	20,00110
Haul									Hole Depth (m) H	Iole Dia. (mm)							
Excavate Found Excavation each 14 19 0.56 \$ 1,143.76 \$ 645.75 \$ 9,040.47 14 \$ 645.75 Prepare Rock Surface Found Excavation each 14 19 2.50 \$ 1,143.76 \$ 2,859.40 \$ 40,031.58 14 \$ 2,859.40 Rock drill Setup Rock Foundations each 14 36 1.00 \$ 920.20 \$ 920.20 \$ 12,882.85 14 \$ 920.20 Install Footing, Form and Pour base Concrete Foundations each 14 24 2.90 \$ 935.63 \$ 2,714.81 \$ 38,007.38 14 \$ 2,714.81 Backfill & Compact Backfill & Com							. , ,		_ ' '									
Prepare Rock Surface Found Excavation each 14 19 2.50 \$ 1,143.76 \$ 2,859.40 \$ 40,031.58 14 \$ 2,859.40 Rock drill Setup Rock Foundations each 14 36 1.00 \$ 920.20 \$ 920.20 \$ 12,882.85 14 \$ 920.20 Install Footing, Form and Pour base Concrete Foundations each 14 24 2.90 \$ 935.63 \$ 2,714.81 \$ 38,007.38 14 \$ 2,714.81 Backfill & Compact Baddit and Compact each 14 21 2.00 \$ 959.25 \$ 1,918.49 \$ 26,858.88 14 \$ 1,918.49 Cleanup Site Cleanup each 14 22 2.00 \$ 194.96 \$ 389.92 \$ 5,458.90 14 \$ 389.92 Heat and Hoard Centerlet Foundations each 14 24 0.80 \$ 935.63 748.50 \$ 10,479.01 14 \$ 748.50 Heat and Hoard Centerlet Foundations each 14 \$ - \$ - \$ - \$ - \$ - <td></td> <td>Haul</td> <td></td> <td>Foundation Haul</td> <td>each</td> <td>14</td> <td>17</td> <td>1.07</td> <td>\$</td> <td>441.04</td> <td>\$ 473.90</td> <td>\$ 6,634.6</td> <td>14 \$</td> <td>473.90</td> <td></td> <td></td> <td></td> <td></td>		Haul		Foundation Haul	each	14	17	1.07	\$	441.04	\$ 473.90	\$ 6,634.6	14 \$	473.90				
Rock drill Setup Rock Foundations each 14 36 1.00 \$ 920.20 \$ 920.20 \$ 12,882.85 14 \$ 920.20 Install Footing, Form and Pour base Concrete Foundations each 14 24 2.90 \$ 935.63 \$ 2,714.81 \$ 38,007.38 14 \$ 2,714.81 Backfill & Compact Backfill & Compact each 14 21 2.00 \$ 959.25 \$ 1,918.49 \$ 26,858.88 14 \$ 1,918.49 Cleanup Site Cleanup each 14 22 2.00 \$ 194.96 \$ 389.92 \$ 5,458.90 14 \$ 389.92 Heat and Hoard Concrete Foundations each 14 24 0.80 \$ 935.63 7 748.50 \$ 10,479.01 14 \$ 748.50 Heat and Hoard Concrete Foundations each 14 24 0.80 \$ 935.63 7 748.50 \$ 10,479.01 14 \$ 748.50 Heat and Hoard each 14 4 5 - - - - - - </td <td></td> <td>Excavate</td> <td></td> <td></td> <td>each</td> <td></td> <td></td> <td>0.56</td> <td>\$</td> <td>1,143.76</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Excavate			each			0.56	\$	1,143.76								
Install Footing, Form and Pour base Concrete Foundations each 14 24 2.90 \$ 935.63 \$ 2,714.81 \$ 38,007.38 14 \$ 2,714.81 Backfill & Compact Backfill and Compact each 14 21 2.00 \$ 959.25 \$ 1,918.49 \$ 26,858.88 14 \$ 1,918.49 Cleanup Sile Cleanup each 14 22 2.00 \$ 194.96 \$ 389.92 \$ 5,458.90 14 \$ 389.92 Heat and Hoard Concrete Foundations each 14 24 0.80 \$ 935.63 \$ 748.50 \$ 10,479.01 14 \$ 748.50 each 14 24 0.80 \$ 935.63 \$ 748.50 \$ 10,479.01 14 \$ 748.50 each 14 24 0.80 \$ 935.63 \$ 748.50 \$ 10,479.01 14 \$ 748.50 each 14 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		Prepare Rock Surface		Found Excavation	each	14	19	2.50	\$	1,143.76	\$ 2,859.40	\$ 40,031.5	8 14 \$	2,859.40				
Backfill & Compact Backfill and Compact each 14 21 2.00 \$ 959.25 \$ 1,918.49 \$ 26,858.88 14 \$ 1,918.49 Cleanup Sile Cleanup each 14 22 2.00 \$ 194.96 \$ 389.92 \$ 5,458.90 14 \$ 389.92 Heat and Hoard Concrete Foundations each 14 24 0.80 \$ 935.63 \$ 748.50 \$ 10,479.01 14 \$ 748.50 Each 14 \$ - \$ - \$ - 14 \$ - Each 14 \$ - \$ - \$ - 14 \$ - Each 14 \$ - \$ - \$ - 14 \$ - Each 14 \$ - \$ - \$ - \$ - 14 \$ - Each 14 \$ - \$ - \$ - \$ - 14 \$ - Each 14 \$ - \$ - \$ - \$ - \$ - 14 \$ - Each 14 \$ -		Rock drill Setup		Rock Foundations	each	14			\$	920.20	\$ 920.20							
Cleanup Site Cleanup each 14 22 2.00 \$ 194.96 \$ 389.92 \$ 5,458.90 14 \$ 389.92 Heat and Hoard Concrete Foundations each 14 24 0.80 \$ 935.63 \$ 748.50 \$ 10,479.01 14 \$ 748.50 Each 14 \$ - \$ - \$ - 14 \$ - - \$ - 14 \$ - - \$ - 14 \$ - -				Concrete Foundations	each	14			\$									
Heat and Hoard Concrete Foundations each 14 24 0.80 \$ 935.63 \$ 748.50 \$ 10,479.01 14 \$ 748.50 Each 14 \$ - \$ - \$ - 14				Backfill and Compact					\$									
each 14 \$ - \$ - 14 \$ - each 14 \$ - \$ - 14 \$ - each 14 \$ - \$ - 14 \$ -				Site Cleanup					\$					389.92				
each 14 \$ - \$ - 14 \$ - each 14 \$ - \$ - 14 \$ -		Heat and Hoard		Concrete Foundations				0.80	\$					748.50				
each 14 \$ - \$ - 14 \$ -									\$			<u>Ψ</u>						
									\$			т						
\$ 10,670.98 \$ 149,393.72 \$ 10,670.98					each /	14			\$		•	*						
										:	\$ 10,670.98	\$ 149,393.7	\$	10,670.98				



ent De	IALCOR 350 kV HVdc Line Const	ruction Front 3 (N	Newfoundland)					(Crew Cost						Total Unit Cost		
D€			,		Units		Hours per								Manhours and		
_	escription				Total	Crew No.	unit	Hou	rly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
_										_					•		
	1-C31 Assembly and Installation of Fo					0	EA			\$	-	\$	10,892.49	2,541.85	\$ 13,434.34	\$	-
	1-C31 Assembly and Installation of Four ad: 1.55m x 1.55m x 0.8m Concrete (m3) =	Steel Weight (lb)	IS per Dwg 505573-46 Grout (I)				,	Hole Depth (n	-> 11	-l- Di- ()							
Pa	2.21	Steel Weight (ID)	6.0	49.8	Excavation (m3)	0.0	#Anchor Holes		1) H	57.0							
ш	aul 2.21	304	Foundation Haul	49.6 each	0.4	_	1.00	\$	441.04			0 \$	-				
	xcavate		Foundation Haul Found Excavation	each	0		0.57	Φ Φ	1.143.76			0 \$	-				
	repare Rock Surface			each	0		2.50	Φ	,	2,859.40 \$	-	0 \$					
	ock drill Setup		Found Excavation	each	0		1.00	Φ		920.20 \$		0 \$	-				
	istall Footing, Form and Pour base		Rock Foundations	each	0		3.11	Φ		2,905.26 \$		0 \$	-				
	ackfill & Compact		Concrete Foundations	each	0		2.00	Φ	959.25	,	-	0 \$	-				
	leanup		Backfill and Compact	each	0		2.00	Φ	194.96		-	0 \$	<u>-</u>				
	!		Site Cleanup	each	0			\$				0 \$					
П	eat and Hoard		Concrete Foundations	each	0		0.80	Φ		748.50 \$		0 \$	-				
\vdash				each	0			Φ		5 - \$	-	0 \$	-				
\vdash				each	0			Φ	- 3			0 \$					
				eacn	0			Ф					-				
									S	10,892.49 \$	-	\$	-				
0,	1 C22 Accombly and Installation of Ea	oundation Type D1	2 ac nor Dwa EOEET	72 Total stru	oturo count:	3	EA			e	32,889.67	\$	10,963.22	2,708.48	\$ 13,671.70	¢	8,125
	1-C32 Assembly and Installation of Fo 1-C32 Assembly and Installation of Four									9	32,009.07	Ф	10,963.22	2,700.40	Φ 13,071.70	Ф	0,123
	ad: 1.6m x 1.6m x 0.8m Concrete (m3) =	• • •				,	,	Hala Danda (a		ala Dia (aura)							
Pa	(),	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)			Hole Depth (n		ole Dia. (mm)	•						
h	2.36	305	6.0	50.2	6.7	0.0	1.00		1.8	57.0	4 404 45	م ا م	107.05				
	aul		Foundation Haul	each	3		1.13	\$	441.04		1,491.15 1.969.84		497.05				
	xcavate		Found Excavation	each	3		0.57	\$		656.61 \$			656.61				
	repare Rock Surface		Found Excavation	each	3		2.50	\$		2,859.40 \$	8,578.20		2,859.40				
	ock drill Setup		Rock Foundations	each	3		1.00	\$	920.20		,	3 \$	920.20				
_	stall Footing, Form and Pour base		Concrete Foundations	each	3		3.18	\$	935.63	Ξ,0.0.00 φ	8,919.14		2,973.05				
_	ackfill & Compact		Backfill and Compact	each	3		2.00	\$	959.25		5,755.48		1,918.49				
	leanup		Site Cleanup	each	3		2.00	\$	194.96				389.92				
He	eat and Hoard		Concrete Foundations	each	3		0.80	\$		748.50 \$	2,245.50		748.50				
\vdash				each	3			\$		- \$		3 \$	-				
<u> </u>				each	3			\$		- \$		3 \$	-				
				each	3			\$	- 3			3 \$	-				
										10,963.22 \$	32,889.67	\$	10,963.22				
_																_	
_										_		_					
	1-C33 Assembly and Installation of Fo					159	EA			\$	1,477,700.97	\$	9,293.72	1,523.52	\$ 10,817.24	Þ	242,23
S1	1-C33 Assembly and Installation of Four	ndation Type A1-2 as	ıs per Dwg 505573-46	622-42DD-0058	3 for Tower Type	A1 (Sound Surfa	ace Rock)				1,477,700.97	\$	9,293.72	1,523.52	\$ 10,817.24	Þ	242,239
S1	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) =	ndation Type A1-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I)	622-42DD-0058 Rebar (kg)	3 for Tower Type Excavation (m3)	A1 (Sound Surfa BackFill Vol(m3)	ace Rock) #Anchor Holes	Hole Depth (n		ole Dia. (mm)	1,477,700.97	\$	9,293.72	1,523.52	\$ 10,817.24	\$	242,239
S1 Pa	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32	ndation Type A1-2 as	rs per Dwg 505573-46 Grout (I) 6.0	622-42DD-0058 Rebar (kg) 47.1	B for Tower Type Excavation (m3)	A1 (Sound Surfa BackFill Vol(m3) 0.0	#Anchor Holes		1.8	ole Dia. (mm) 57.0				1,523.52	\$ 10,817.24	Þ	242,239
S1 Pac	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul	ndation Type A1-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 6.0	622-42DD-0058 Rebar (kg) 47.1 each	B for Tower Type Excavation (m3) 5.0	A1 (Sound Surfa BackFill Vol(m3) 0.0 17	#Anchor Holes 1.00		441.04	ble Dia. (mm) 57.0 3 474.30 \$	75,414.33	159 \$	474.30	1,523.52	\$ 10,817.24	•	242,239
S1 Pad Ha Ex	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul xcavate	ndation Type A1-2 as Steel Weight (lb)	as per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation	622-42DD-0058 Rebar (kg) 47.1 each each	5.0 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19	#Anchor Holes 1.00 1.08 0.56		1.8 441.04 1,143.76	ble Dia. (mm) 57.0 474.30 \$ 6 635.64 \$	75,414.33 101,067.46	159 \$ 159 \$	474.30 635.64	5 1,523.52	\$ 10,817.24	•	242,239
S1 Pac Ha Ex Pr	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul xcavate repare Rock Surface	ndation Type A1-2 as Steel Weight (lb)	s per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation	622-42DD-0058 Rebar (kg) 47.1 each each each	5.0 (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159) (159)	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19	#Anchor Holes 1.00 1.08 0.56		1.8 441.04 S 1,143.76 S 1,143.76 S	57.0 57.0 6 474.30 \$ 6 635.64 \$ 1,715.64 \$	75,414.33 101,067.46 272,786.65	159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64	5 1,523.52	\$ 10,817.24	•	242,23\$
Ha Ex Pr	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul xcavate repare Rock Surface ock drill Setup	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	622-42DD-0058 Rebar (kg) 47.1 each each each each	5.0 Excavation (m3) 5.0 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19	#Anchor Holes 1.00 1.08 0.56 1.50 1.00		1.8 441.04 1,143.76 1,143.76 920.20	57.0 \$ 474.30 \$ \$ 6 635.64 \$ \$ 1,715.64 \$ \$ 920.20 \$	75,414.33 101,067.46 272,786.65 146,312.40	159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20	5 1,523.52	\$ 10,817.24	•	242,239
Ha Ex Pr Ro	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul xcavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	622-42DD-0058 Rebar (kg) 47.1 each each each each each each	5.0 Excavation (m3) 5.0 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66		1.8 441.04 S 1,143.76 S 1,143.76 S 920.20 S 935.63 S	ble Dia. (mm) 57.0 474.30 \$ 6 635.64 \$ 7,715.64 \$ 920.20 \$ 2,491.01 \$	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81	159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01	5 1,523.52	\$ 10,817.24	•	242,23§
Ha Ex Pr Ro Ins	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul xcavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base ackfill & Compact	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	622-42DD-0058 Rebar (kg) 47.1 each each each each each each each	5.0 Excavation (m3) 5.0 159 159 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00		1.8 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$	ble Dia. (mm) 57.0 474.30 \$ 6 635.64 \$ 7.715.64 \$ 920.20 \$ 2,491.01 \$ 1,918.49 \$	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81 305,040.18	159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01 1,918.49	5 1,523.52	\$ 10,817.24	•	242,239
Ha Ex Pr Ro Ins	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul x cavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base ackfill & Compact leanup	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	622-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	5.0 Excavation (m3) 5.0 159 159 159 159 159 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24 21	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00		1.8 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$	ble Dia. (mm) 57.0 474.30 \$ 6 635.64 \$ 7.715.64 \$ 7.920.20 \$ 7.491.01 \$ 7.918.49 \$ 7.389.92 \$	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81 305,040.18 61,997.48	159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92	5 1,523.52	\$ 10,817.24	•	242,239
Par Ha Ex Pr Rc Ins Ba	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul xcavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base ackfill & Compact	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	622-42DD-0058 Rebar (kg)	3 for Tower Type Excavation (m3) 5.0 159 159 159 159 159 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24 21 22 24	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00		1.8 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$	ble Dia. (mm) 57.0 474.30 \$ 6.635.64 \$ 7.715.64 \$ 7.491.01 \$ 7.491.01 \$ 7.48.50 \$	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81 305,040.18	159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92 748.50	5 1,523.52	\$ 10,817.24	•	242,239
Ha Ex Pr Rc Ins Ba	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul x cavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base ackfill & Compact leanup	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	622-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	3 for Tower Type Excavation (m3) 5.0 159 159 159 159 159 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24 21 22 24	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00		1.8 441.04 \$\frac{441.04}{1,143.76} \$\frac{9}	ble Dia. (mm) 57.0 474.30 \$ 6.35.64 \$ 7.715.64 \$ 7.20.20 \$ 7.20.	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81 305,040.18 61,997.48	159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92 748.50	5 1,523.52	\$ 10,817.24	•	242,239
Par Ha Ex Pr Rc Ins Ba	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul x cavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base ackfill & Compact leanup	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	622-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	3 for Tower Type Excavation (m3) 5.0 159 159 159 159 159 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24 21 22 24	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00		1.8 441.04 S 1,143.76 S 1,143.76 S 920.20 S 935.63 S 959.25 S 194.96 S 935.63 S	ble Dia. (mm) 57.0 474.30 \$ 6 435.64 \$ 7.715.64 \$ 7.491.01 \$ 7.491.01 \$ 7.48.50 \$ 7.48.50 \$ 7.48.50 \$ 7.48.50 \$ 7.48.50 \$	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81 305,040.18 61,997.48 119,011.66	159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92 748.50	5 1,523.52	\$ 10,817.24	•	242,239
Ha Ex Pr Rc Ins Ba	1-C33 Assembly and Installation of Four ad: 1.2m x 1.2m x 0.8m Concrete (m3) = 1.32 aul x cavate repare Rock Surface ock drill Setup istall Footing, Form and Pour base ackfill & Compact leanup	ndation Type A1-2 as Steel Weight (lb)	AS per Dwg 505573-46 Grout (I) 6.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	622-42DD-0058 Rebar (kg) 47.1 each each each each each each each each	3 for Tower Type Excavation (m3) 5.0 159 159 159 159 159 159 159 159 159 159	A1 (Sound Surfa BackFill Vol(m3) 0.0 17 19 19 36 24 21 22 24	#Anchor Holes 1.00 1.08 0.56 1.50 1.00 2.66 2.00 2.00		1.8 441.04 S 1,143.76 S 1,143.76 S 920.20 S 935.63 S 959.25 S 194.96 S 935.63 S	ble Dia. (mm) 57.0 474.30 \$ 6.35.64 \$ 7.715.64 \$ 7.20.20 \$ 7.20.	75,414.33 101,067.46 272,786.65 146,312.40 396,070.81 305,040.18 61,997.48 119,011.66	159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$ 159 \$	474.30 635.64 1,715.64 920.20 2,491.01 1,918.49 389.92 748.50	5 1,523.52	\$ 10,817.24	•	242,239.



Description Description	NAL(COR 350 kV HVdc Line Constru	uction Front 3 (N	Newfoundland)					C	Crew Cost						Total Unit Cost		
March Control Contro			,	,		Units		Hours per										
Second Second	Descr	ription				Total	Crew No.	unit	Hou	ly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
SF-CLG Assembly and Installation of Foundation Type A2-2 as per Tags (1977) 48074-8002-4800-4800-4800-4800-4800-4800-480																		
Part Devel 10 for 1	4 S1-C3	34 Assembly and Installation of Foເ	undation Type A2-	-2 as per Dwg 505573	3- Total struc	ture count:						\$ -	. \$	9,753.82	\$ 2,541.85	\$ 12,295.67	\$	
Part																		
Fiscal	Pad: 1.5	()				, ,	, ,			,	` '							
Excessive			332	6.0														
Property Rock Surface				Foundation Haul		<u> </u>			\$									
Floor for the Setup				Found Excavation		·			\$,		*		-				
Residial Footing, From and Pour bases				Found Excavation		·			\$:						
Bookfall & Compact				Rock Foundations		·			\$			•						
Clearup				Concrete Foundations		·			\$,	<u>*</u>						
Heat and Hoard				Backfill and Compact		·			\$, , , , , ,	Ť						
Comparison Com		•		Site Cleanup		·			\$		7							
St-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 59573 - Total structure count	Heat a	and Hoard		Concrete Foundations				0.80	\$									
S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S1-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 905973 - Total structure count: S2-C									\$									
S 97.53 R2 S S S S S S S S S						-			\$			T						
S \$1-235 Assembly and Installation of Foundation Type A3-2 as per Dwg 509573 - Total structive count: S1-236 Assembly and Installation of Foundation Type A3-2 as per Dwg 509573-4022-420D-0005 for Tower Type A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A3 (Source North Pype A4 (Source North Pype A3 (Source North Pype A3 (Source North Pype A4 (Source N					each	0			\$			T.	- 7	-				
St-C35 Assembly and Installation of Foundation Type A4-2 as per Dwg 50573-4022-4200-0058 for Tower Type A8 (Sound Surface Pock) Patt 1-sh sh a 0.6 Georase (pull) Selet Weigh (ib) George (pull) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet Weigh (ib) Selet We											\$ 9,753. 82	\$	\$	-				
St-C35 Assembly and Installation of Foundation Type A3-2 as per Dug 505573-4622-42D0-0056 for Tower Type A3 (Sourd will be less from the part of the																		
Pack March 10, 10 Concrete (ms) Pack Weight (m) Pack W	5 S1-C3	35 Assembly and Installation of Foເ	undation Type A3-	-2 as per Dwg 505573	3- Total struc	ture count:						1, 115,280.	.19 \$	9,532.31	\$ 2,073.68	\$ 11,605.99	\$	242,62
Haul								,										
Haul	Pad: 1.4	, ,	• , ,			. ,	, ,											
Example		1.80	207	6.0	48.7	5.8	0.0	1.00		1.8	57.0							
Pepara Rock Surface Rock Surface				Foundation Haul	each				\$									
Rock drill Setup	Excav	vate		Found Excavation	each				\$	1,143.76		· · · · · · · · · · · · · · · · · · ·						
Install Footing, Form and Pour base	Prepa	are Rock Surface		Found Excavation	each	117	19	1.50	\$	1,143.76	\$ 1,715.64	\$ 200,729.	.80 117 \$	1,715.64				
Backfill & Compact Backfill & Compact Backfill & Compact Cleanup Backfill & Compact	Rock	drill Setup		Rock Foundations	each	117	36	1.00	\$	920.20	\$ 920 .20	\$ 107,663.	.84 117 \$	920.20				
Cleanup Sea Course Each 117 22 2.00 \$ 194.90 \$ 3.89.92 \$ 4.56.20.79 117 \$ 3.89.92 \$ 4.56.20.79 117 \$ 3.89.92 \$ 4.56.20.79 117 \$ 3.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79 117 \$ 5.89.92 \$ 4.56.20.79	Install	l Footing, Form and Pour base		Concrete Foundations	each	117	24	2.90	\$	935.63	\$ 2,714.81	\$ 317,633.	.14 117 \$	2,714.81				
Heat and Hoard	Backfi	fill & Compact		Backfill and Compact	each	117	21	2.00	\$	959. 25	\$ 1,918.49	\$ 224,463.	.53 117 \$	1,918.49				
Sample S	Clean	nup		Site Cleanup	each	117	22	2.00	\$	194.96	\$ 389.92	\$ 45,620.	.79 117 \$	389.92				
S S S S S S S S S S	Heat a	and Hoard		Concrete Foundations	each	117	24	0.80	\$	935.63	\$ 748.50	\$ 87,574.	.62 117 \$	748.50				
St-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- Total structure count: St-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A4 (Sound Surface Rock)					each	117			\$		\$ -	\$ -	117 \$	-				
\$ 1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- Total structure count: S 1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573- 4622-42DD-0058 for Tower Type A4 (Sound Surface Rock) Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = Steel Weight (lib) Grout (l) Gr					each	117			\$	- /	\$ -	\$ -						
S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573 - Total structure count: S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A4 (Sound Surface Rock) Pad: 1.55m x 1.55m x 0.8m Concrete (m3) = Steel Weight (lb)					each	117			\$		\$ -	\$ -	117 \$	-				
S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A4 (Sound Surface Rock) Pad: 1.55m x 1.55m x 0.5m Concrete (m3) = Steel Weight (lb) Grout (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) 2.21 332 6.0 62.4 6.4 0.0 1.00 1.8 57.0 Haul Foundation Head each Poundations each each 0 19 0.57 \$ 1,143.76 \$ 501.98 \$ - 0					•						\$ 9,532.31	\$ 1,115,280.	.19 \$	9,532.31				
S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A4 (Sound Surface Rock) Pad: 1.55m x 1.55m x 0.5m Concrete (m3) = Steel Weight (lb) Grout (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Dia. (mm) 2.21 332 6.0 62.4 6.4 0.0 1.00 1.8 57.0 Haul Foundation Head each Poundations each each 0 19 0.57 \$ 1,143.76 \$ 501.98 \$ - 0											_							
S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 for Tower Type A4 (Sound Surface Rock) Pad: 1.55m x 0.8m Concrete (m3) = Steel Weight (b) Grout (f) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Depth (m) Hole Depth (m) 2.21 332 6.0 62.4 6.4 0.0 1.00 1.8 57.0 Haul Foundation Haul each Foundation Haul each each 0 19 0.57 \$ 1,143.76 \$ 501.98 \$ - 0	6 S1-C3	36 Assembly and Installation of Fou	undation Type A4-	-2 as per Dwg 505573	3- Total struc	ture count:	0	EA				\$ -	. \$	9,753.82	\$ 2,541.85	\$ 12,295.67	\$	
2.21 332 6.0 62.4 6.4 0.0 1.00 1.8 57.0 Haul Foundation Head each 0 17 1.14 \$ 441.04 \$ 501.98 \$ - 0 \$ - Excavate Foundations each 0 19 0.57 \$ 1,143.76 \$ 653.83 \$ - 0 \$ - Prepare Rock Surface Foundations each 0 19 1.50 \$ 1,143.76 \$ 1,715.64 \$ - 0 \$ - Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Rock Grill Setup Rock Grandations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Rock Grill Setup Setup Setup Setup Setup Rock Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Rock Grill Setup Setup Setup Setup Setup Setup Setup Setup Setup Rock Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Rock Grill Setup	S1-C3	36 Assembly and Installation of Found	dation Type A4-2 as	s per Dwg 505573-46	22-42DD-0058	for Tower Type	A4 (Sound Surfa	ace Rock)			_							
Haul	Pad: 1.5	.55m x 1.55m x 0.8m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)	BackFill Vol(m3)	#Anchor Holes	Hole Depth (m) H	Hole Dia. (mm)							
Excavate Found Excavation each 0 19 0.57 \$ 1,143.76 \$ 653.83 \$ - 0 \$ - Prepare Rock Surface Found Excavation each 0 19 1.50 \$ 1,143.76 \$ 1,715.64 \$ - 0 \$ - Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 2.00 \$ 959.25 \$ 1,918.49 \$ - 0 \$ - Cleanup Ste Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 748.50 \$ - 0 \$ - Heat and Hoard		2.21	332	6.0	62.4	6.4	0.0	1.00		1.8	57.0							
Prepare Rock Surface Found Excavation each 0 19 1.50 \$ 1,143.76 \$ 1,715.64 \$ - 0 \$ - Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 2.00 \$ 959.25 \$ 1,918.49 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each 0 - - - - - 0 \$ - Foundations each 0 24 0.80	Haul			Foundation Haul	each	0	17	1.14	\$	441.04	\$ 501.98	\$ -	0 \$	-				
Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 2.00 \$ 959.25 \$ 1,918.49 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Heat and Hoard each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Heat and Hoard each 0 \$ - \$ - \$ - 0 \$ - each 0 \$ - \$ - \$ - \$ - 0	Excav	vate		Found Excavation	each	0	19	0.57	\$	1,143.76	\$ 653.83	\$ -	0 \$	-				
Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 2.00 \$ 959.25 \$ 1,918.49 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 \$ - \$ - \$ - 0 \$ - Each 0 \$ - \$ - \$ - \$ - 0 \$ - Install Footing, Form and Pour base Compact 959.25 \$ 1,918.49 \$ - 0 <td< td=""><td>Prepa</td><td>are Rock Surface</td><td></td><td>Found Excavation</td><td>each</td><td>0</td><td>19</td><td>1.50</td><td>\$</td><td>1,143.76</td><td>\$ 1,715.64</td><td>\$ -</td><td>0 \$</td><td>-</td><td></td><td></td><td></td><td></td></td<>	Prepa	are Rock Surface		Found Excavation	each	0	19	1.50	\$	1,143.76	\$ 1,715.64	\$ -	0 \$	-				
Install Footing, Form and Pour base Concrete Foundations each 0 24 3.11 \$ 935.63 \$ 2,905.26 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 2.00 \$ 959.25 \$ 1,918.49 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each 0 \$ - \$ - \$ - \$ - 0 \$ - each 0 \$ - \$ - \$ - \$ - 0 \$ - each 0 \$ - \$ - \$ - \$ - 0 \$ -	Rock	drill Setup			each	0			\$									
Backfill & Compact Backfill and Compact each 0 21 2.00 \$ 959.25 \$ 1,918.49 \$ - 0 \$ - Cleanup Site Geanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ - - 0 \$ - - 0 \$ - - - 0 \$ - - 0 \$ - - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ - - 0 \$ -						0			\$			•						
Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0		<u> </u>				0			\$			•						
Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ -				· · · · · · · · · · · · · · · · · · ·					\$			T						
each 0 \$ - \$ - 0 \$ - each 0 \$ - \$ - 0 \$ -		•		· · · · · · · · · · · · · · · · · · ·		·			\$									
each 0 \$ - \$ - 0 \$ -	11041			CONSISTO I CUMUNIONIO				0.00	\$									
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U U U U I V U U	Line Construction Front 3 ((Newfoundland)					Crew Cost						Total Unit Cost		
:	,	,		Units		Hours per							Manhours and		
Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
S1-C37 Assembly and Insta	allation of Foundation Type B1	1-2 as per Dwg 50557	3- Total struc	ture count:	15	EA			\$ 147,368.30	\$	9,824.55 \$	2,708.48	\$ 12,533.03	\$	40,627
	llation of Foundation Type B1-2														
Pad: 1.6m x 1.6m x 0.8m Concrete (, ,	Grout (I)	Rebar (kg)	Excavation (m3)	, ,		1 (/	Hole Dia. (mm)							
2.36	332	6.0	62.8	6.7	0.0	1.00	1.8	57.0	A 7.500.00	45 6	500.44				
Haul		Foundation Haul	each	15		1.14	\$ 441.04	\$ 502.14		15 \$	502.14				
Excavate		Found Excavation	each	15		0.57	\$ 1,143.76	\$ 656.61	\$ 9,849.20	15 \$	656.61				
Prepare Rock Surface Rock drill Setup		Found Excavation	each	15		1.50 1.00	\$ 1,143.76	\$ 1,715.64	\$ 25,734.59 \$ 13,803.06		1,715.64 920.20				
		Rock Foundations	each	15 15			\$ 920.20	\$ 920.20 \$ 2,973.05	\$ 13,803.06 \$ 44.595.69		2,973.05				
Install Footing, Form and Pour Backfill & Compact	our base	Concrete Foundations	each			3.18 2.00	\$ 935.63 \$ 959.25		\$ 44,595.69 \$ 28,777.38	15 \$	1,918.49				
		Backfill and Compact	each each	15 15		2.00	\$ 959.25			15 \$ 15 \$	389.92				
Cleanup		Site Cleanup	each	15		0.80	\$ 935.63			15 \$	748.50				
Heat and Hoard		Concrete Foundations	each	15		0.00	\$ 935.03		\$ 11,227.52	15 \$	740.50				
			each	15			\$ -	7	\$ -	15 \$	-				
			each	15			- · · · · · · · · · · · · · · · · · · ·		\$ -	15 \$					
			Cacii	13			-	\$ 9,824.55		\$	9,824.55				
								ψ 3,02 4 .00	147,000.00	Ψ	3,024.33				
S1-C38 Assembly and Inst	allation of Foundation Type B2	2-2 as nor Dwg 50557	73- Total struc	ture count:	0	EA			\$ -	\$	24,478.49 \$	2 793 12	\$ 27,271.61	\$	
	llation of Foundation Type B2-2									Ψ	24,470.43 ψ	2,730.12	Ψ 27,271.01	•	
Pad: 2.2m x 2.4m x 0.4m Concrete (71	Grout (I)	Rebar (kg)	Excavation (m3)	,	#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
2.43	4441	199.0	124.3	224.6	222.2	10.00	6.0	57.0							
Haul	7771	Foundation Haul	each	0		2.85	\$ 441.04		\$ -	0 \$	-				
Excavate		Found Excavation	each	0	19	3.00	\$ 1.143.76	\$ 3,426.56	\$ -	0 \$	-				
Prepare Rock Surface		Found Excavation	each	0	19	3.50	\$ 1,143.76	\$ 4,003.16	\$ -	0 \$	-				
Rock drill Setup		Rock Foundations	each	0	36	1.00	\$ 920.20	\$ 920.20	\$ -	0 \$	-				
Install Footing, Form and Pou	our base	Concrete Foundations	each	0	24	10.10	\$ 935.63	\$ 9.446.25	\$ -	0 \$	_				
Backfill & Compact		Backfill and Compact	each	0		4.47		.,	\$ -	0 \$	_				
							959 /5	3 4 78b 7b							
Cleanup		•	each	0	22			\$ 4,286.76 \$ 389.92	\$ -		-				
		Site Cleanup				2.00	\$ 194.96	\$ 389.92	<u> </u>	0 \$					
Cleanup Heat and Hoard		•	each	0	22 24		\$ 194.96		\$ -	0 \$	-				
		Site Cleanup	each each	0	22 24	2.00	\$ 194.96	\$ 389.92 \$ 748.50	\$ - \$ -	0 \$	-				
		Site Cleanup	each each each	0 0	22 24	2.00	\$ 194.96	\$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	- - -				
		Site Cleanup	each each each each	0 0	22 24	2.00	\$ 194.96	\$ 389.92 \$ 748.50 \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$	- - -				
		Site Cleanup	each each each each	0 0	22 24	2.00	\$ 194.96	\$ 389.92 \$ 748.50 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -				
Heat and Hoard	allation of Foundation Type C1	Site Cleanup Concrete Foundations	each each each each each	0 0 0	22 24	2.00	\$ 194.96	\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 24,478.49	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -	2,793.12	\$ 27,271.61	\$	290,48
Heat and Hoard S1-C39 Assembly and Install S1-C39 Assembly and Install	llation of Foundation Type C1-2	Site Cleanup Concrete Foundations 1-2 as per Dwg 50557	each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 104	2.00 0.80	\$ 194.96 \$ 935.63 \$ - \$ -	\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 24,478.49	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -	2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (llation of Foundation Type C1-2 a (m3) = Steel Weight (lb)	Concrete Foundations 1-2 as per Dwg 505573-4 Grout (I)	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 104 C1 BackFill Vol(m3)	2.00 0.80	\$ 194.96 \$ 935.63 \$ - \$ -	\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 24,478.49	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -	2,793.12	\$ 27,271.61	\$	290,484
S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43	llation of Foundation Type C1-2	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 104 C1 BackFill Vol(m3) 222.2	2.00 0.80 EA #Anchor Holes 10.00	\$ 194.96 \$ 935.63 \$ - \$ -	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$	- - - - - 24,478.49 \$	2,793.12	\$ 27,271.61	\$	290,484
S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul	llation of Foundation Type C1-2 a (m3) = Steel Weight (lb)	Concrete Foundations 1-2 as per Dwg 505573-4 Grout (I)	each each each each each each each 100 100 100 100 100 100 100 100 100 10	outure count: 6 for Tower Type (Excavation (m3) 224.6	22 24 104 C1 BackFill Vol(m3) 222.2	2.00 0.80 EA #Anchor Holes 10.00 2.85	\$ 194.96 \$ 935.63 \$ - \$ - Hole Depth (m) 6.0 \$ 441.04	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 5	- - - - - - 24,478.49 \$	2,793.12	\$ 27,271.61	\$	290,484
S1-C39 Assembly and Insta S1-C39 Assembly and Instal Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate	llation of Foundation Type C1-2 a (m3) = Steel Weight (lb)	Concrete Foundations 1-2 as per Dwg 50557 as per Dwg 505573-4 Grout (I) 199.0	each each each each each each each 100 100 100 100 100 100 100 100 100 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 24 21 21 BackFill Vol(m3) 222.2 17 19	2.00 0.80 EA #Anchor Holes 10.00 2.85 3.00	\$ 194.96 \$ 935.63 \$ - \$ - Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 104 \$ 104 \$	24,478.49 \$ 1,257.13 3,426.56	2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface	llation of Foundation Type C1-2 a (m3) = Steel Weight (lb)	Concrete Foundations 1-2 as per Dwg 50557 as per Dwg 505573-4 Grout (I) 199.0 Foundation Haul	each each each each each each 73- Total struc 622-42DD-0026 Rebar (kg) 124.3 each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 24 21 21 BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 2.85 3.00 3.50	\$ 194.96 \$ 935.63 \$ - \$ - \$ - Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76 \$ 1,143.76	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 104 \$ 104 \$ 104 \$	24,478.49 \$ 1,257.13 3,426.56 4,003.16	2,793.12	\$ 27,271.61	\$	290,484
S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573 as per Dwg 505573-41 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each each 73- Total struc 622-42DD-0026 Rebar (kg) 124.3 each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 104 C1 BackFill Vol(m3) 222.2 17 19 19	#Anchor Holes 10.00 2.85 3.00 3.50 1.00	## 194.96 ## 194.96	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 104 \$ 104 \$ 104 \$ 104 \$	24,478.49 \$ 1,257.13 3,426.56 4,003.16 920.20	2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pou	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573 as per Dwg 505573-4 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	ture count: for Tower Type (Excavation (m3) 224.6 104 104 104 104 104	22 24 104 C1 BackFill Vol(m3) 222.2 17 19 19 36 24	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10	\$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - Hole Depth (m) 6.0 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$	24,478.49 \$ 1,257.13 3,426.56 4,003.16 920.20 9,446.25	2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pot Backfill & Compact	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4 s per Dwg 505573-4 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each 73- Total struc 622-42DD-0026 Rebar (kg) 124.3 each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 104 C1 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47	## 194.96 ## 194	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76	\$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43 \$ 445,823.25	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$	24,478.49 \$ 1,257.13 3,426.56 4,003.16 920.20 9,446.25 4,286.76	2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Insta S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pot Backfill & Compact Cleanup	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4s Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	ture count: for Tower Type (Excavation (m3) 224.6 104 104 104 104 104 104 104	22 24 104 C1 BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	## 194.96 ## 194.96 ## 194.96 ## 194.96 ## 194.96 ## 194.96 ## 194.96 ## 194.96	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92	\$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43 \$ 445,823.25 \$ 40,551.81	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 24,478.49 \$ 1,257.13 3,426.56 4,003.16 920.20 9,446.25 4,286.76 389.92	2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pot Backfill & Compact	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4 s per Dwg 505573-4 Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	Excavation (m3) 224.6 104 104 104 104 104 104 104 10	22 24 104 C1 BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47	\$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 748.50	\$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43 \$ 445,823.25 \$ 40,551.81 \$ 77,844.11	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$ 104 \$		2,793.12	\$ 27,271.61	\$	290,48
S1-C39 Assembly and Insta S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pot Backfill & Compact Cleanup	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4s Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each 73- Total struct 622-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 24 21 21 222 24 21 22 24	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	## 194.96 ## 194.96 ## 193.563 ## 1.143.76 ## 1.143.7	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43 \$ 445,823.25 \$ 40,551.81 \$ 77,844.11 \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - - - - - - - - - - -	2,793.12	\$ 27,271.61	\$	290,484
S1-C39 Assembly and Insta S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pot Backfill & Compact Cleanup	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4s Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each 622-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	Ceture count: 6 for Tower Type (Excavation (m3) 224.6 104 104 104 104 104 104 104 104 104 104	22 24 24 21 21 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	\$ 194.96 \$ 935.63 \$ - \$ - \$ - \$ - \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43 \$ 445,823.25 \$ 40,551.81 \$ 77,844.11 \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$		2,793.12	\$ 27,271.61	\$	290,484
S1-C39 Assembly and Insta S1-C39 Assembly and Insta S1-C39 Assembly and Install Pad: 2.2m x 2.4m x 0.4m Concrete (2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pot Backfill & Compact Cleanup	llation of Foundation Type C1-2 (m3) = Steel Weight (lb) 4441	Site Cleanup Concrete Foundations 1-2 as per Dwg 505573-4s Grout (I) 199.0 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each 73- Total struct 622-42DD-0026 Rebar (kg) 124.3 each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 24 24 21 21 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 2.85 3.00 3.50 1.00 10.10 4.47 2.00	## 194.96 ## 194.96 ## 193.563 ## 1.143.76 ## 1.143.7	\$ 389.92 \$ 748.50 \$ - \$ - \$ 24,478.49 Hole Dia. (mm) 57.0 \$ 1,257.13 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 9,446.25 \$ 4,286.76 \$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 2,545,763.39 \$ 130,741.88 \$ 356,362.24 \$ 416,328.48 \$ 95,701.19 \$ 982,410.43 \$ 445,823.25 \$ 40,551.81 \$ 77,844.11 \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - - - - - - - - - - -	2,793.12	\$ 27,271.61	\$	290,484



S1-C4 Pad: 2.2 Haul Excav Prepa Rock	40 Assembly and Installation of Fou 40 Assembly and Installation of Fou .2m x 2.4m x 0.4m Concrete (m3) = 2.43				Units Total	Crew No.	Hours per unit	Hourly R	Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
S1-C4 S1-C4 Pad: 2.3 Haul Excav Prepa	40 Assembly and Installation of Fou 40 Assembly and Installation of Fou .2m x 2.4m x 0.4m Concrete (m3) = 2.43	ndation Type C2-2 a		3- Total struc			<u> </u>	Hourly R	Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	i otal Materials	
Haul Excav Prepa	40 Assembly and Installation of Fou .2m x 2.4m x 0.4m Concrete (m3) = 2.43	ndation Type C2-2 a		3- Total struc	ture count:	_											
S1-C4 Pad: 2.2 Haul Excav Prepa Rock	40 Assembly and Installation of Fou .2m x 2.4m x 0.4m Concrete (m3) = 2.43	ndation Type C2-2 a		o- i utai struc	ruie Coulit.		EA				\$ -	\$	24,705.02 \$	2,793.12	\$ 27,498.14	e	
Haul Excav Prepa	.2m x 2.4m x 0.4m Concrete (m3) = 2.43						EA				a -	Φ	24,705.02 \$	2,193.12	Φ 21,490.14	a	
Haul Excav Prepa Rock	2.43	Steel Welant (ID)	Grout (I)			BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Ho	ole Dia. (mm)							
Excav Prepa Rock		4551	199.0	124.3	224.6	222.2	10.00	6.0		57.0							
Excav Prepa Rock			Foundation Haul	each	0		2.90	\$	441.04 \$		\$ -	0 \$	-				
Prepa Rock			Found Excavation	each	0	19	3.00	\$	1,143.76 \$			0 \$	-				
Rock	are Rock Surface		Found Excavation	each	0		3.50		1,143.76 \$		\$ -	0 \$	-				
	drill Setup		Rock Foundations	each	0	36	1.00	\$	920.20 \$		\$ -	0 \$	=				
Instal ¹	Il Footing, Form and Pour base		Concrete Foundations	each	0	24	10.32	\$	935.63 \$		\$ -	0 \$	-				
	fill & Compact		Backfill and Compact	each	0	21	4.47	\$	959.25 \$	4,286.76	\$ -	0 \$	-				
Clean	nup		Site Cleanup	each	0	22	2.00	\$	194.96 \$	389.92	\$ -	0 \$	-				
Heat	and Hoard		Concrete Foundations	each	0	24	0.80	\$	935.63 \$	748.50	\$ -	0 \$	-				
				each	0			\$	- \$		\$ -	0 \$	-				
				each	0			\$	- \$		\$ -	0 \$	-				
				each	0			\$	- \$	-	\$ -	0 \$	-				
									\$	24,705. 02	\$ -	\$	=				
64.5		= -:		10 T-1 1 1		454					A 0.007.400.00		04.070.00	0.700 (0.	A 07 700 00	•	
	41 Assembly and Installation of F					124	EA				\$ 3,097,130.22	\$	24,976.86 \$	2,793.12	\$ 27,769.98	\$	346
	41 Assembly and Installation of Fou								4.0								
Pad: 2.	.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)		. ,	BackFill Vol(m3)			Ho	ole Dia. (mm)							
	2.43	4683	215.6	124.3	224.6	222.2	10.00	6.5	111010	57.0	404 440 06	1041	1.001.70				
Haul			Foundation Haul	each	124		2.95	\$	441.04 \$				1,301.70				
Excav			Found Excavation	each	124		3.00		1,143.76 \$				3,426.56				
	are Rock Surface		Found Excavation	each	124		3.50	\$	1,143.76 \$				4,003.16 920.20				
	drill Setup Il Footing, Form and Pour base		Rock Foundations	each each	124 124		1.00	\$	920.20 \$ 935.63 \$	9,900.05			9,900.05				
	fill & Compact		Concrete Foundations	each	124		4.47	Φ	959.25 \$				4,286.76				
Clean			Backfill and Compact	each	124		2.00	Φ	194.96 \$		\$ 48,350.24		389.92				
	and Hoard		Site Cleanup Concrete Foundations	each	124		0.80	ψ ¢	935.63 \$		\$ 92,814.13		748.50				
i icat a	and Hoard		Concrete Foundations	each	124		0.00	Φ Φ	- \$	*	\$ 92,014.10	124 \$	-				
-				each	124			Φ \$	- \$		\$ -	124 \$	-				
				each	124	<u></u>		\$	- \$	-	\$ -	124 \$	-				
				Cuon	127			Ψ	\$	24,976.86	\$ 3,097,130.22		24,976.86				
									_	21,010.00	\$ 0,007,100.22	Ψ	2 1,01 0.00				
S1-C4	42 Assembly and Installation of Fe	oundation Type D2-	-2 as per Dwg 50557	3- Total struc	ture count:	0	ea				\$ -	\$	24,976.86 \$	2,793.12	\$ 27,769.98	\$	
S1-C/	42 Assembly and Installation of Fou	ndation Type D2-2 a	as per Dwg 505573-46	322-42DD-0026	for Tower Type	D2								•	,		
	.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)			BackFill Vol(m3)	#Anchor Holes	Hole Depth (m)	Ho	ole Dia. (mm)							
	2.43	4683	215.6	124.3	224.6	222.2	10.00	6.5		57.0							
Haul			Foundation Haul	each	0	17	2.95	\$	441.04 \$	1,301.70	\$ -	0 \$	-				
Excav	vate		Found Excavation	each	0	19	3.00	\$	1,143.76 \$	-,	\$ -	0 \$	=				
Prepa	are Rock Surface		Found Excavation	each	0	19	3.50	\$	1,143.76 \$		\$ -	0 \$	=				
	drill Setup		Rock Foundations	each	0	36	1.00	\$	920.20 \$	920.20	\$ -	0 \$	-				
Instal'	ll Footing, Form and Pour base		Concrete Foundations	each	0	24	10.58	\$	935.63 \$		\$ -	0 \$	=				
	fill & Compact		Backfill and Compact	ea c h	0	21	4.47	\$	959.25 \$			0 \$	=				
	nun		Site Cleanup	each	0	22	2.00	\$	194.96 \$			0 \$	=				
	тир		Concrete Foundations	each	0		0.80	\$	935.63 \$	748.50	\$ -	0 \$	-				
Backfi Clean	and Hoard								Φ.	_	\$ -	0 \$	-				
Backfi Clean	•			each	0			\$	- \$		φ -		-				
Backfi Clean	•			each each	0			\$	- \$ - \$	-	\$ - \$ -	0 \$	-				



Description Total Craw No. Unit Hourly Rate Unit Cost Subtotal Unit S Unit Cost Materials Total Materials Total Materials		NALCOR 350 kV HVdc Line Cons	truction Front 3 (N	lewfoundland)					Crew	Cost						Total Unit Cost		
3 3 3 4 3 4 4 4 5 5 5 5 5 5 5	ment							Hours per										
S 1.6.4 Ascenday and Installation of Foundation Type C1 2 as per Corp. 55077 4622 4000 000 000 000 000 000 000 000 000	n	Description				Total	Crew No.	unit	Hourly Ra	ate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
S 1.6.4 Ascenday and Installation of Foundation Type C1 2 as per Corp. 55077 4622 4000 000 000 000 000 000 000 000 000											_		_			4	-	
Part Company								ea			\$	604,881.24	\$	25,203.38	2,793.12	\$ 27,996.50	\$	67,034.88
Page Page								#Amahar Halaa	Hala Danth (m)	11-	la Dia (mm)							
Field		, ,	• , ,	.,,		. ,	\ /			по								
Frequencies		=::•	4794							441 04 ¢		31 726 0/	2/10	1 321 06				
Proposed Rook Sufface																		
Section of Setting Section Sec					_													
Part Part									\$									
Record Chemistry Chemist		I I							\$									
Company		<u> </u>			_				\$									
Heat and Hoord		•							\$,							
Beach 24		•							\$									
each 24		Trout arra Fronta		Control of Canadatorio				0.00	\$									
Second Compact Compa									\$									
St.C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-7041 structure count: 84									\$	-								
## S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 50573- Total structure count: S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 50573-1262-4200-0026 for foreer Type C1 (surface rock) S2-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 50573-1262-4200-0026 for foreer Type C1 (surface rock) Per 2 jan 2								l e	· ·									
St-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 60573-V2-242 CD-0006 for Tower Type C1 (1947)														,				
S1-C44 Assembly and Installation of Foundation Type C12 as per Dwg 505573-4622-42D-0026 for Tower Type C1 (response to the Committee of the Co	:44	S1-C44 Assembly and Installation of Fe	oundation Type C1-2	2 as per Dwg 505573	- Total struc	ture count:	84	ea			9	2,056,193.51	\$	24,478.49	2,793.12	\$ 27,271.61	\$	234,622.0
Part		S1-C44 Assembly and Installation of Fou	ındation Type C1-2 as	s per Dwg 505573-462	22-42DD-0026	for Tower Type	C1 (surface rock)										
Haul									Hole Depth (m)	Ho	le Dia. (mm)							
Excivate		2.43	4441	149.3	124.3	224.6	222.2	10.00	4.5		57.0							
Prepare Rock Surface		Haul		Foundation Haul	each	84	17	2.85	\$	441.04 \$	1,257.13	105,599.21		1,257.13				
Rock drill Setup Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pooling Form and Pour base Real Pool Pool Pool Pool Pool Pool Pool Po		Excavate		Found Excavation	each	84	19											
Install Fooling, Form and Pour base Sach Backfill & Compact Sach Backfill & Compact Sach Backfill & Compact Sach Backfill & Compact Sach Backfill & Compact Sach Backfill & Compact Sach		Prepare Rock Surface		Found Excavation	each	84	19	3.50	\$			336,265.31						
Backfill & Compact Backfil		<u> </u>		Rock Foundations	each			1.00	\$	920.20 \$								
Cleanup Stan Canners Each Eac		Install Footing, Form and Pour base		Concrete Foundations	each	84	24	10.10	\$	935.63 \$				9,446.25				
Heat and Holard		Backfill & Compact		Backfill and Compact	each				\$									
Sample S				Site Cleanup	each				\$									
Since Sinc		Heat and Hoard		Concrete Foundations				0.80	\$			62,874.09		748.50				
S S S S S S S S S S									\$	Ŧ		-		-				
## S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573- Total structure count: S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type Part: 2-wr 2-wr x									\$					-				
S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573- Total structure count: S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type Pat: 2xm x 2.4m x 0.4m Concrete (m3) = Steel Weight (lb) Grout (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Hole Dia (mm) 2.43 4551 165.9 124.3 224.6 22.2 10.00 5.0 57.0 Haul Fundation Nature each 0 19 3.00 \$ 1,143.76 \$ 3.426.56 \$ - 0 \$ 5 - 0					each	84			\$	- \$								
S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type C2 (surface rock) - 7,2mm clad steel Wire; 3000m reels at 250kg/km or ~800kg Hole Dia, (mm) Pole										\$	24,478.49	2,056,193.51	\$	24,478.49				
S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42DD-0026 for Tower Type C2 (surface rock) - 7,2mm clad steel Wire; 300m reels at 250kg/km or ~800kg Hole Dia, (mm) Hole						. /.					_		_				_	
Pad: 22m x 2.4m x 0.4m Concrete (m3) = Steel Weight (lib) Grout (l) Rebar (kg) Excavation (m3) BackFill Vol(m3) #Anchor Holes Hole Dia (mm)												-	\$	24,705.02	2,793.12	\$ 27,498.14	\$	-
Audit																		
Haul					\ •,		. , ,			HC								
Excavate Found Excavation each 0 19 3.00 \$ 1,143.76 \$ 3,426.56 \$ - 0 \$ - Prepare Rock Surface Found Excavation each 0 19 3.50 \$ 1,143.76 \$ 4,003.16 \$ - 0 \$ - Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 10.32 \$ 935.63 \$ 9,652.53 \$ - 0 \$ - Backfill & Compact Backfill & Compact each 0 21 4.47 \$ 959.25 \$ 4,286.76 \$ - 0 \$ - Cleanup Sta Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each			4001						5.0	444.04								
Prepare Rock Surface Found Excavation each 0 19 3.50 \$ 1,143.76 \$ 4,003.16 \$ - 0 \$ - Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 10.32 \$ 935.63 \$ 9,652.53 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 4.47 \$ 959.25 \$ 4,286.76 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 748.50 \$ - 0 \$ - Each 0 24 0.80 \$ 935.63 748.50 \$ - 0 \$ - Each 0 5 - - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>\$</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								_	\$									
Rock drill Setup Rock Foundations each 0 36 1.00 \$ 920.20 \$ 920.20 \$ - 0 \$ - Install Footing, Form and Pour base Concrete Foundations each 0 24 10.32 \$ 935.63 \$ 9,652.53 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 4.47 \$ 959.25 \$ 4,286.76 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 748.50 \$ - 0 \$ - Heat and Hoard cach 0 24 0.80 \$ 935.63 748.50 \$ - 0 \$ - Heat and Hoard each 0 \$ - \$ - \$ - 0 \$ - Heat and Hoard each 0 \$ - \$ - \$ - 0																		
Install Footing, Form and Pour base Concrete Foundations each 0 24 10.32 \$ 935.63 \$ 9,652.53 \$ - 0 \$ - Backfill & Compact Backfill and Compact each 0 21 4.47 \$ 959.25 \$ 4,286.76 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 \$ - \$ - \$ - 0 \$ - Each 0 \$ - \$ - \$ - \$ - 0 \$ - Each 0 \$ - \$ - \$ - 0 \$ - Each 0 \$ - \$ -		•						_	\$									
Backfill & Compact Backfill and Compact each 0 21 4.47 \$ 959.25 \$ 4,286.76 \$ - 0 \$ - Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 \$ - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Each 0 \$ - \$ - \$ - 0 \$ - - \$ - 0 \$ - - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>\$</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								_	\$									
Cleanup Site Cleanup each 0 22 2.00 \$ 194.96 \$ 389.92 - 0 \$ - Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - Each 0 \$ - \$ - \$ - 0 \$ - - 0 \$ - - 0 \$ - -				Concrete Foundations					\$					=				
Heat and Hoard Concrete Foundations each 0 24 0.80 \$ 935.63 \$ 748.50 \$ - 0 \$ - each 0 \$ - \$ - \$ - 0 \$ - - 0 \$ - -									ф ф					-				
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each 0 \$ - \$ - 0 \$ - each 0 \$ - \$ - 0 \$ -		neat and noard		Concrete Foundations		,		0.80	Φ Φ									
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\$ 24,703.02 \$ -					eacil	0			φ									
										Ф	24,703.02	-	\$	-				



<u>/</u>	NALCOR 350 kV HVdc Line Const	truction Front 3 (N	lewfoundland)					Crew Cost						Total Unit Cost		
ment					Units		Hours per							Manhours and		
ւ [Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
									_						_	
	S1-C46 Assembly and Installation of Fo					104	EA			\$ 2,597,593.08	\$	24,976.86 \$	2,793.12	\$ 27,769.98	\$	290,484.4
	S1-C46 Assembly and Installation of Four															
_[Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)		#Anchor Holes		Hole Dia. (mm)							
F	2.43	4683	165.9	124.3	224.6	222.2	10.00	5.0	57.0							
—	Haul		Foundation Haul	each	104		2.95	\$ 441.04			104 \$	1,301.70				
<u> </u>	Excavate		Found Excavation	each	104	19	3.00	· · · · · · · · · · · · · · · · · · ·	\$ 3,426.56		104 \$	3,426.56				
	Prepare Rock Surface		Found Excavation	each	104	19	3.50	\$ 1,143.76	\$ 4,003.16	\$ 416,328.48	104 \$	4,003.16				
<u> </u>	Rock drill Setup		Rock Foundations	each	104	36	1.00	\$ 920.20	\$ 920.20		104 \$	920.20				
	Install Footing, Form and Pour base		Concrete Foundations	each	104	24	10.58	\$ 935.63	\$ 9,900.05	\$ 1,029,605.32	104 \$	9,900.05				
—	Backfill & Compact		Backfill and Compact	each	104	21	4.47	\$ 959.25	\$ 4,286.76	\$ 445,823.25	104 \$	4,286.76				
<u> </u>	Cleanup		Site Cleanup	each	104	22	2.00	\$ 194.96		\$ 40,551.81	104 \$	389.92				
<u>"</u>	Heat and Hoard		Concrete Foundations	each	104	24	0.80	\$ 935.63	\$ 748.50		104 \$	748.50				
ļ				each	104			-	\$ -	\$ -	104 \$	-				
ļ				each	104			-	\$ -	\$ -	104 \$	-				
ļ				each	104			-	\$ -	\$ -	104 \$	-				
L				each	104			-		\$ -	104 \$					
									\$ 24,976.86	\$ 2,597,593.08	\$	24,976.86				
	S1-C47 Assembly and Installation of Fo					0	EA			\$ -	\$	26,120.62 \$	2,793.12	\$ 28,913.74	\$	-
	S1-C47 Assembly and Installation of Four	• •			• •	,										
_F	Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Steel Weight (lb)	Grout (I)	Rebar (kg)	Excavation (m3)				Hole Dia. (mm)							
г	2.43	4683	165.9	124.3	224.6	222.2	10.00	5.0	57.0							
-	Haul		Foundation Haul	each	0		2.95	\$ 441.04			0 \$	-				
	Excavate		Found Excavation	each	0	19	3.00	· · · · · · · · · · · · · · · · · · ·	\$ 3,426.56	\$ -	0 \$	-				
<u> </u>	Prepare Rock Surface		Found Excavation	each	0	19	4.50		\$ 5,146.92		0 \$	-				
<u> </u>	Rock drill Setup		Rock Foundations	each	0	36	1.00	\$ 920.20	\$ 920.20	-	0 \$	-				
	Install Footing, Form and Pour base		Concrete Foundations	each	0	24	10.58	\$ 935.63		\$ -	0 \$	-				
	Backfill & Compact		Backfill and Compact	each	0	21	4.47	\$ 959.25	\$ 4,286.76	\$ -	0 \$	-				
<u> </u>	Cleanup		Site Cleanup	each			0.00	Φ 404.00		•						
,,,					0	22	2.00	\$ 194.96	\$ 389.92	\$ -	0 \$	-				
F	Heat and Hoard		Concrete Foundations	each	0	24	2.00 0.80	\$ 194.96 \$ 935.63	\$ 389.92 \$ 748.50	\$ -	0 \$	-				
	neat and hoard			each each	0	24			\$ 389.92 \$ 748.50 \$ -	\$ - \$ -	0 \$					
-	пеагапо поаго			each each each	0	24			\$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$	- - -				
-	neat and noard			each each	0	24			\$ 389.92 \$ 748.50 \$ - \$ -	\$ - \$ - \$ -	0 \$					
-	neat and noard			each each each	0	24			\$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$	- - -				
			Concrete Foundations	each each each each	0 0 0	24	0.80		\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 26,120.62	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	- - - -				
48 \$	S1-C48 Assembly and Installation of Fc		Concrete Foundations 2 as per Dwg 505573	each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24	0.80 EA		\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 26,120.62	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$	- - - -	2,793.12	\$ 27,996.50	\$	55,862.4
48 5	S1-C48 Assembly and Installation of Fo S1-C48 Assembly and Installation of Four	ındation Type E1-2 as	Concrete Foundations 2 as per Dwg 505573 s per Dwg 505573-46	each each each each each 25- Total struct 22-42DD-0026	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 E1 (surface rock)	0.80 EA	\$ 935.63 \$ - \$ - \$ -	\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 26,120.62	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	- - - -	2,793.12	\$ 27,996.50	\$	55,8 62 .4
48 3	S1-C48 Assembly and Installation of Fo S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) =	Indation Type E1-2 as Steel Weight (lb)	2 as per Dwg 505573-46. Grout (I)	each each each each each 22-42DD-0026 Rebar (kg)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 E1 (surface rock) BackFill Vol(m3)	0.80 EA #Anchor Holes	\$ 935.63 \$ - \$ - \$ -	\$ 389.92 \$ 748.50 \$ - \$ - \$ - \$ 26,120.62	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	- - - -	2,793.12	\$ 27,996.50	\$	55,862.4
48 3	S1-C48 Assembly and Installation of For S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43	ındation Type E1-2 as	2 as per Dwg 505573 s per Dwg 505573-46; Grout (I) 165.9	each each each each each each each 8- Total struc 22-42DD-0026 Rebar (kg) 124.3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 E1 (surface rock) BackFill Vol(m3) 222.2	EA #Anchor Holes 10.00	\$ 935.63 \$ - \$ - \$ - Hole Depth (m) 5.0	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0	\$ - \$ - \$ - \$ - \$ - \$ - \$ 504,067.70	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ \$	25,203.38 \$	2,793.12	\$ 27,996.50	\$	55,862.4
48 \$ 	S1-C48 Assembly and Installation of For S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43	Indation Type E1-2 as Steel Weight (lb)	2 as per Dwg 505573 s per Dwg 505573-463 Grout (I) 165.9	each each each each each each B- Total struc 22-42DD-0026 Rebar (kg) 124.3 each	ture count: for Tower Type Excavation (m3) 224.6	20 E1 (surface rock) BackFill Vol(m3) 222.2 17	#Anchor Holes 10.00 3.00	\$ 935.63 \$ - \$ - \$ - Hole Depth (m) 5.0 \$ 441.04	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96	\$ - \$ - \$ - \$ - \$ - \$ - \$ 504,067.70	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ \$ 20 \$	25,203.38 \$	2,793.12	\$ 27,996.50	\$	55,862.4
48 \$	S1-C48 Assembly and Installation of Fc S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-463 Grout (I) 165.9 Foundation Haul Found Excavation	each each each each each each 22-42DD-0026 Rebar (kg) 124.3 each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 3.00 3.00	\$ 935.63 \$ - \$ - \$ - Hole Depth (m) 5.0 \$ 441.04 \$ 1,143.76	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56	\$ - \$ - \$ - \$ - \$ - \$ - \$ 504,067.70 \$ 26,439.12 \$ 68,531.20	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ \$ \$ \$ 20 \$ 20 \$	25,203.38 \$ 1,321.96 3,426.56	2,793.12	\$ 27,996.50	\$	55,862.4
48 \$ E	S1-C48 Assembly and Installation of Fc S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46; Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation	each each each each each 22-42DD-0026 Rebar (kg) 124.3 each each each	ture count: for Tower Type Excavation (m3) 224.6 20 20	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19	#Anchor Holes 10.00 3.00 3.00 3.50	## S	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 20 \$ 20 \$ 20 \$	25,203.38 \$ 1,321.96 3,426.56 4,003.16	2,793.12	\$ 27,996.50	\$	55,862.4
£48	S1-C48 Assembly and Installation of Fo S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations	each each each each each 22-42DD-0026 Rebar (kg) 124.3 each each each	ture count: for Tower Type E Excavation (m3) 224.6 20 20 20	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19	#Anchor Holes 10.00 3.00 3.00 3.50 1.00	\$ 935.63 \$ - \$ - \$ - \$ - Hole Depth (m) 5.0 \$ 441.04 \$ 1,143.76 \$ 1,143.76 \$ 920.20	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 20 \$ 20 \$ 20 \$	25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20	2,793.12	\$ 27,996.50	\$	55,862.4
£48 \$	S1-C48 Assembly and Installation of Fo S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations	each each each each each each each each	ture count: for Tower Type E Excavation (m3) 224.6 20 20 20 20	20 E1 (surface rock, BackFill Vol(m3) 222.2 17 19 19 36 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80	## S	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 20 \$ 20 \$ 20 \$	25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32	2,793.12	\$ 27,996.50	\$	55,862.4
	S1-C48 Assembly and Installation of Fo S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	#ture count: for Tower Type E Excavation (m3) 224.6 20 20 20 20	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47	## S	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76	\$ - \$ - \$ - \$ - \$ - \$ 504,067.70 \$ 26,439.12 \$ 68,531.20 \$ 80,063.17 \$ 18,404.08 \$ 202,126.45 \$ 85,735.24	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 20 \$ 20 \$	- - - - - - 25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76	2,793.12	\$ 27,996.50	\$	55,862.4
	S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly and Installation of Formula S1-C48 Assembly and In	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	ture count: for Tower Type E Excavation (m3) 224.6 20 20 20 20 20 20	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 36 24 21	#Anchor Holes 10.00 3.00 3.50 1.00 10.80 4.47 2.00	## S 935.63 ## Hole Depth (m) 5.0	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92	\$ - \$ - \$ - \$ - \$ - \$ 504,067.70 \$ 26,439.12 \$ 68,531.20 \$ 80,063.17 \$ 18,404.08 \$ 202,126.45 \$ 85,735.24 \$ 7,798.43	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 20 \$ 20 \$	25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92	2,793.12	\$ 27,996.50	\$	55,862.4
	S1-C48 Assembly and Installation of Fo S1-C48 Assembly and Installation of Four Pad: 2.2m x 2.4m x 0.4m Concrete (m3) = 2.43 Haul Excavate Prepare Rock Surface Rock drill Setup Install Footing, Form and Pour base Backfill & Compact	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact	each each each each each each each each	ture count: for Tower Type Excavation (m3) 224.6 20 20 20 20 20 20 20 20 20 2	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 3.00 3.00 3.50 1.00 10.80 4.47	## S 935.63 ## Hole Depth (m) 5.0	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 748.50	\$ - \$ - \$ - \$ - \$ - \$ 504,067.70 \$ 26,439.12 \$ 68,531.20 \$ 80,063.17 \$ 18,404.08 \$ 202,126.45 \$ 85,735.24 \$ 7,798.43 \$ 14,970.02	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- - - - - - 25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92 748.50	2,793.12	\$ 27,996.50	\$	55,862.4
	S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly and Installation of Formula S1-C48 Assembly and In	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	ture count: for Tower Type Excavation (m3) 224.6 20 20 20 20 20 20 20 20 20 2	24 20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 24 24 21 22 24	#Anchor Holes 10.00 3.00 3.50 1.00 10.80 4.47 2.00	## S 935.63 ## Hole Depth (m) \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ 935.63	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ - \$ - \$ - \$ 504,067.70 \$ 504,067.70 \$ 26,439.12 \$ 68,531.20 \$ 80,063.17 \$ 18,404.08 \$ 202,126.45 \$ 85,735.24 \$ 7,798.43 \$ 14,970.02 \$ -	0 \$ 0 \$ 0 \$ 0 \$ 8 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 2	- - - - - - 25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92 748.50	2,793.12	\$ 27,996.50	\$	55,862.4
	S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly and Installation of Formula S1-C48 Assembly and In	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	ture count: for Tower Type Excavation (m3) 224.6 20 20 20 20 20 20 20 20 20 20	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 3.00 3.50 1.00 10.80 4.47 2.00	## S 935.63 ## Hole Depth (m) 5.0	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ - \$ - \$ - \$ 504,067.70 \$ 504,067.70 \$ 26,439.12 \$ 68,531.20 \$ 80,063.17 \$ 18,404.08 \$ 202,126.45 \$ 85,735.24 \$ 7,798.43 \$ 14,970.02 \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 20 \$	- - - - - - - 25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92 748.50	2,793.12	\$ 27,996.50	\$	55,862.4
48 3	S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C48 Assembly and Installation of Formula S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C43 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly S1-C48 Assembly and Installation of Formula S1-C48 Assembly and In	Indation Type E1-2 as Steel Weight (lb)	Concrete Foundations 2 as per Dwg 505573 5 per Dwg 505573-46: Grout (I) 165.9 Foundation Haul Found Excavation Found Excavation Rock Foundations Concrete Foundations Backfill and Compact Site Cleanup	each each each each each each each each	ture count: for Tower Type Excavation (m3) 224.6 20 20 20 20 20 20 20 20 20 2	20 E1 (surface rock) BackFill Vol(m3) 222.2 17 19 19 36 24 21 22 24	#Anchor Holes 10.00 3.00 3.50 1.00 10.80 4.47 2.00	## S 935.63 ## Hole Depth (m) \$ 441.04 \$ 1,143.76 \$ 920.20 \$ 935.63 \$ 959.25 \$ 194.96 \$ 935.63 \$ 935.63	\$ 389.92 \$ 748.50 \$ - \$ - \$ 26,120.62 Hole Dia. (mm) 57.0 \$ 1,321.96 \$ 3,426.56 \$ 4,003.16 \$ 920.20 \$ 10,106.32 \$ 4,286.76 \$ 389.92 \$ 748.50 \$ -	\$ - \$ - \$ - \$ - \$ 504,067.70 \$ 26,439.12 \$ 68,531.20 \$ 80,063.17 \$ 18,404.08 \$ 202,126.45 \$ 85,735.24 \$ 7,798.43 \$ 14,970.02 \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- - - - - - 25,203.38 \$ 1,321.96 3,426.56 4,003.16 920.20 10,106.32 4,286.76 389.92 748.50	2,793.12	\$ 27,996.50	\$	55,862.4



	NALCOR 350 kV HVdc Line Construction Fror	nt 3 (Newfoundland)					Crew Cost						Total Unit Cost		
Payment			Ur	its		Hours per							Manhours and		
Item	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
V::C49	S1-C49 Installation and Testing of 25M Mechanical	Rock Anchor as per design	Total structur	e count:	12924	LM			\$ 2,445,257.63	3	\$ 189.20 \$	23.48	\$ 212.69	\$	303,500.24
	S1-C49 Installation and Testing of 25M Mechanical Ro			al specification											
		Grout (I)	Grout (unit)			#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
	Drill and Install Rock Anchors	2.6	0.3	12924	00	1.00	1.0	50.0	\$ 1,681,883.64	140004	\$ 130.14				
	Grout Anchor	Rock Foundations	each each	12924	36 23	0.14 0.15	\$ 920.20 \$ 393.78				\$ 130.14				
	Grout Anchor	Grout Crew	each	12924	23	0.15	\$ 393.76	\$ 59.07							
			each	12924			\$ -	\$ -	•	12924					
			each	12924			\$ -	\$ -							
			each	12924			\$ -	\$ -							
			each	12924			\$ -	\$ -							
			each	12924			\$	\$ -		12924	\$ -				
			each	12924			\$ -	\$ -		12924					
			each	12924			\$ -	\$ -	\$ -						
				,				\$ 189.20			\$ 189.20				
										_					
V::C50	S1-C50 Installation and Testing of 29M Mechanical	Rock Anchor as per design	Total structur	e count:	870	LM			\$ 172,272.27	7	\$ 198.01 \$	30.52	\$ 228.53	\$	26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Ro	ck Anchor as per design drawi	ngs and technic	al specification		_				_					
		Grout (I)	Grout (unit)			#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
		3.3	0.3			1.00	1.0	57.0							
	Drill and Install Rock Anchors	Rock Foundations	each	870	36	0.15	\$ 920.20								
	Grout Anchor	Grout Crew	each	870	23	0.15	\$ 393.78								
			each	870			\$ -	\$ -			\$ -				
			each	870			\$ -	\$ -	*						
			each	870			\$ -	\$ -		870					
			each	870			\$ -	\$ -	*						
			each	870			-	\$ -	т						
			each	870 870			5 -	-	•						
			each	870 870			5 -	\$ - \$ -	•						
			each	870			-	\$ 198.01	•		\$ 198.01				
								\$ 198.01	\$ 172,272.27		\$ 198.01				
V::C51	S1-C51 Installation and Testing of 32M Mechanical	Pock Anchor as nor design	Total structur	e count:	0	LM			\$ -		\$ 214.99 \$	37.28	\$ 252.27	•	_
	S1-C51 Installation and Testing of 32M Mechanical Ro								Ψ -		ψ 217.55 ψ	37.20	Ψ 252.21	Ψ	_
	or our modulation and resulting of ozim mechanical res	Grout (I)	Grout (unit)	ai specification		#Anchor Holes	Hole Depth (m)	Hole Dia. (mm)							
		4.1	0.4			1.00	1.0	63.0							
	Drill and Install Rock Anchors	Rock Foundations	each	0	36	0.16	\$ 920.20		\$ -	0	\$ -				
	Grout Anchor	Grout Crew	each	0	23	0.18	\$ 393.78			0					
			each	0			\$ -	\$ -		0					
			each	0	_		\$ -	\$ -	•	0					
			each	0			\$ -	\$ -	\$ -		\$ -				
			each	0			\$ -	\$ -	\$ -	0	\$ -				
			each	0			\$ -	\$ -	\$ -	0	\$ -				
			each	0			\$ -	\$ -	\$ -	0	\$ -				
			each	0			\$ -	\$ -	\$ -						
			each	0			\$ -	\$ -		0	\$ -				
								\$ 214.99	\$ -		\$ -				



	NALCOR 350 kV HVdc Line Construction Fr	ont 3 (Newfoundland)					Crew (Cost						Total Unit Cost		
Payment			U	nits		Hours per								Manhours and		
Item	Description			Total	Crew No.	unit	Hourly Ra	ite	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
					22424					F 444 000 00		200 70 4	40.00	A 070 70		0.47 000 00
V::C52	S1-C52 Installation and Testing of 43M Mechanica S1-C52 Installation and Testing of 43M Mechanical F	al Rock Anchor as per design	Total structu	re count:	22104	LM			\$	5,144,368.29	•	232.73 \$	46.03	\$ 278.76	\$ 1	,017,393.66
	51-C52 Installation and Testing of 45th Mechanical F	Grout (I)	Grout (unit)	cai specification		#Anchor Holes	Hole Depth (m)	Hole	Dia. (mm)	A						
		5.0	0.5			1.00	1.0	Tiole	70.0							
ſ	Drill and Install Rock Anchors	Rock Foundations	each	22104	36	0.17		920.20 \$	153.98 \$	3,403,563.74	22104 9	153.98				
	Grout Anchor	Grout Crew	each	22104	23	0.20		393.78 \$	78.76 \$	1,740,804.56						
			each	22104			\$	- \$	- \$	-						
ľ			each	22104			\$	- \$	- \$		22104					
			each	22104			\$	- \$	- \$	-	22104	-				
			each	22104			\$	- \$	- \$	-	22104					
			each	22104			\$	- \$	- \$	-	22104	-				
			each	22104			\$	- \$	- \$	-	22104					
			each	22104			\$	- \$	- \$	-						
			each	22104			\$	- \$	- \$	-						
								\$	232.73 \$	5,144,368.29	9	232.73				
														A		
V::C53	S1-C53 Installation and Testing of 57M Mechanica	al Rock Anchor as per design	Total structu	re count:	0	LM			\$	-	9	256.27 \$	64.71	\$ 320.98	\$	-
	S1-C53 Installation and Testing of 57M Mechanical F			cal specification					D: ()							
		Grout (I)	Grout (unit)			#Anchor Holes		Hole	Dia. (mm)							
Г	Delli and hastall Danis Anakana	7.0	0.6	0.1	00	1.00	1.0	000 00 0	83.0		1 014					
l.	Drill and Install Rock Anchors	Rock Foundations	each	0		0.18	\$	920.20 \$		-	0 9					
ŀ	Grout Anchor	Grout Crew	each each	0	23	0.23	\$	393.78 \$		-	0 3					
ŀ			each	0			\$	- \$			0 3					
			each	0			\$	- \$		-	0 9					
ŀ			each	0			\$	- \$	- \$		0 9					
ŀ			each	0			\$	- \$		-	0 9					
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İ			each	0			\$	- \$	- \$	-	0 9					
			•					\$	256.27 \$	-	9	-				
			381	0				,			_					
	S1-C54 Installation and Testing of 64M Mechanica				45	LM			\$	12,286.82	\$	273.04 \$	76.09	\$ 349.13	\$	3,423.89
	S1-C54 Installation and Testing of 64M Mechanical F		•	cal specification												
		Grout (I)	Grout (unit)				Hole Depth (m)	Hole	Dia. (mm)							
Г	Delli and Install Davis Analysis	8.3	0.7	4-1	200	1.00	1.0	000 00 4	90.0	7.050.04	1 4514	474.00				
	Drill and Install Rock Anchors	Rock Foundations	each	45	36	0.19	\$	920.20 \$	174.60 \$	7,856.84						
	Grout Anchor	Grout Crew	each	45 45	23	0.25	\$	393.78 \$	98.44 \$	4,429.98	45 S					
ŀ			each each	45	_		\$	- \$ - \$	- \$ - \$	-	45 3					
}			each	45	_		Φ Φ	- \$ - \$	- \$	-	45 3					
ŀ			each	45			\$	- \$	- \$ - \$	-	45 5					
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ŀ			each	45			\$	- \$	- \$		45 9					
ŀ			each	45			\$	- \$	- \$	_	45 9					
ŀ			each	45			\$	- \$	- \$	=	45 9					
ı								\$	273.04 \$	12,286.82		273.04				
											_					



	ne Construction Front 3 (Newfoundland)	11.0		<u> </u>	Crew Cost						Total Unit Cost	
Description		Units Total	Cross No	Hours per	Housely Data	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	iviateriais	Materials	Total Materials
H-Pile Foundations												
	d Installation of Foundation Type A1-3 as per Dwg	Total structure count:	6	EA		\$	14,120.3	88	\$ 2,353.40	\$ 44,266.30	\$ 46,619.70	\$ 265,
S1-C55 Design, Assembly and I	Installation of Foundation Type A1-3 as per Dwg 505	573-4622-42DD-0037 for To			installation of steep cap.	*	,,,=		2,0000	,	10,010110	,
	,, , , ,			0,								
Site Preparation	Site Preparation		6 2	2.00	\$ 675.12				\$ 1,350.24			
supervisor	Supervisory		6 29	6.00	\$ 167.19				\$ 1,003.15			
			6			\$ - \$		_				
			6		-	\$ - \$ \$ - \$						
		eacii	0		φ -	\$ - \$ \$ 2,353.40 \$			\$ 2,353.40			
		1 1				Σ,555.40 ψ	14,120.0		Ψ 2,000.40			
S1-C56 Design, Assembly and	d Installation of Foundation Type A2-3 as per Dwg	Total structure count:	0	EA		\$			\$ 2,353.40	\$ 44,266.30	\$ 46,619.70	\$
S1-C56 Design, Assembly and I	Installation of Foundation Type A2-3 as per Dwg 505	, 5573-4622-42DD-0037 for To	wer Type A2 includ	ding supply and	installation of steep cap.				,		,	
Site Preparation	Site Preparation		0 2	2.00	\$ 675.12				\$ -			
supervisor	Supervisory		0 29	6.00	\$ 167.19				\$ -			
		==:=::	0		\$ -	\$ - \$ \$ - \$			\$ -			
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			0		\$ -	\$ - \$			\$ -			
			0		ų –	\$ - \$			•			
		Guerr			T	\$ 2,353.40 \$			\$ -			
									•			
S1-C57 Design Assembly and						\$	11,766.9	10	\$ 2,353,40	1100000		\$ 221,
O i Oo i Designi, Assembly and	d Installation of Foundation Type A3-3 as per Dwg	Total structure count:	5	EA		φ		19	\$ 2,353.40	\$ 44,266.30	\$ 46,619.70	Ψ,
S1-C57 Design, Assembly and I	d Installation of Foundation Type A3-3 as per Dwg Installation of Foundation Type A3-3 as per Dwg 505	j Total structure count: 5573-4622-42DD-0037 for To			installation of steep cap.	4	11,10010	99	\$ 2,353.40	44,266.30	\$ 46,619.70	Ψ 221,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg Installation of Foundation Type A3-3 as per Dwg 505	5573-4622-42DD-0037 for To	wer Type A3 includ	ding supply and			,			44,266.30	\$ 46,619.70	Ψ 221,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	6573-4622-42DD-0037 for To	wer Type A3 includ	ding supply and	\$ 675.12	\$ 1,350.24 \$	6,751.2	22 5	\$ 1,350.24	44,266.30	\$ 46,619.70	¥ 221,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	5573-4622-42DD-0037 for To each each	wer Type A3 includes 5 2 29	ding supply and	\$ 675.12 \$ 167.19	\$ 1,350.24 \$ \$ 1,003.15 \$	6,751.2 5,015.7	22 5	\$ 1,350.24 \$ 1,003.15	44,266.30	\$ 46,619.70	¥ 221,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	5573-4622-42DD-0037 for To	wer Type A3 includes 5 2 5 29 5	ding supply and	\$ 675.12 \$ 167.19 \$ -	\$ 1,350.24 \$ \$ 1,003.15 \$ \$ - \$	6,751.2 5,015.7	22 5 76 5 5	\$ 1,350.24 \$ 1,003.15 \$ -	44,266.30	\$ 46,619.70	221,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	each each each each each each	wer Type A3 includes 5 2 5 29 5 5 5 5	ding supply and	\$ 675.12 \$ 167.19 \$ -	\$ 1,350.24 \$ \$ 1,003.15 \$ \$ - \$ \$ \$ - \$	6,751.2 5,015.7 -	22 5 76 5 5	\$ 1,350.24 \$ 1,003.15 \$ - \$ -	44,266.30	\$ 46,619.70	¥ 22.,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	each each each each each each each each	wer Type A3 includes 5 2 5 29 5	ding supply and	\$ 675.12 \$ 167.19 \$ -	\$ 1,350.24 \$ \$ 1,003.15 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,751.2 5,015.7 - -	22 5 76 5 5	\$ 1,350.24 \$ 1,003.15 \$ - \$ - \$ -	44,266.30	\$ 46,619.70	¥ 22.,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	each each each each each each each each	wer Type A3 includes 5 2 5 29 5 5 5 5	ding supply and	\$ 675.12 \$ 167.19 \$ -	\$ 1,350.24 \$ \$ 1,003.15 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	6,751.2 5,015.7 - - -	22 5 76 5 5 5	\$ 1,350.24 \$ 1,003.15 \$ - \$ -	44,266.30	\$ 46,619.70	22.,
S1-C57 Design, Assembly and I	Installation of Foundation Type A3-3 as per Dwg 505	each each each each each each each each	wer Type A3 includes 5 2 5 29 5 5 5 5	ding supply and	\$ 675.12 \$ 167.19 \$ -	\$ 1,350.24 \$ \$ 1,003.15 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,751.2 5,015.7 - - - - -	22 5 76 5 5 5 5	\$ 1,350.24 \$ 1,003.15 \$ - \$ - \$ - \$ -	44,266.30	\$ 46,619.70	¥ 22.,
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S1-C57 Design, Assembly and I Site Preparation supervisor S1-C58 Design, Assembly and S1-C58 Design, Assembly and I Site Preparation supervisor S1-C59 Design, Assembly and S1-C59 Design, Assembly and I Site Preparation	Installation of Foundation Type A3-3 as per Dwg 505 Site Preparation Supervisory d Installation of Foundation Type A4-3 as per Dwg Installation of Foundation Type A4-3 as per Dwg 505 Site Preparation Supervisory d Installation of Foundation Type B1-3 as per Dwg Installation of Foundation Type B1-3 as per Dwg Installation of Foundation Type B1-3 as per Dwg Installation of Foundation Type B1-3 as per Dwg Site Preparation	each each each each each each each each	wer Type A3 include 5	EA ding supply and 2.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	\$ 675.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 1,350.24 \$ 1,003.15 \$ \$ - \$ \$ \$ 2,353.40 \$ \$ \$ 1,350.24 \$ \$ \$ 1,003.15 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ 1,003.15 \$ \$ \$ - \$ \$ \$ \$ 1,350.24 \$ \$ 1,003.15 \$ \$ \$ - \$ \$ \$ 1,350.24 \$ \$ 1,003.15 \$ \$ - \$ \$ \$ 1,003.15 \$ \$ \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,003.15 \$ 1,00	6,751.2 5,015.7 11,766.9	22 5 76 5 5 5 5 5 5 5 5 5 6 7 7 8 9 9 9 9 9 10 10 10 10 10 10 10 10 10 10	\$ 1,350.24 \$ 1,003.15 \$ - \$ - \$ - \$ 2,353.40 \$ 2,353.40 \$ 2,353.40 \$ 2,353.40 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 44,266.30	\$ 46,619.70	\$



nt	TWILE CONTROL TIVE CONTROL	ction Front 3 (Newfoundland)		lu-ita			Crew Cost						Total Unit Cost		
	Description			Jnits Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials	
					0.0	•	riourly riace	J 3331	<u> </u>		•			•	
	S1-C60 Design, Assembly and Installation	of Foundation Type B2-3 as per Dwg	g Total struct	ure count:	0	EA			-	\$	5,362.85	208,457.2	8 \$ 213,820.13	\$ \$	
	S1-C60 Design, Assembly and Installation of	f Foundation Type B2-3 as per Dwg 50	5573-4622-42DI	D-0046 for Lowe	er Type B2 includ	ling supply and	installation of steep cap.								
I	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12	1,350.24	\$ -	0 \$	_				
	supervisor	Supervisory	each	0	29	24.00		4,012.61	\$ -	0 \$	-				
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	S1-C61 Design, Assembly and Installation	of Foundation Type C1-3 as per Dwg	a Total structi	ure count:	4	EA			\$ 21,451.4	2 \$	5,362.85	208 457 2	8 \$ 213,820.13	. ¢	833
	S1-C61 Design, Assembly and Installation of	f Foundation Type C1-3 as per Dwg 50	5573-4622-42D	D-0046 for Tow			installation of steel cap		Ψ 21,731.7.	Ψ	3,302.03	200,437.2	Ψ 213,020.13	Ψ	000
	or con Deergri, risseringly and metallation of			2 00 .0 .00	o , po oo.a.	a9 capp., aa	motanianon or otoor sup.								
	Site Preparation	Site Preparation	each	4	2	2.00	\$ 675.12	1,350.24	\$ 5,400.9		1,350.24				
	supervisor	Supervisory	each	4	29	24.00	\$ 167.19		\$ 16,050.4		4,012.61				
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l			each	4				5,362.85	\$ \$ 21,451.4	4 \$	5,362.85				
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	S1-C62 Design, Assembly and Installation of	11 odildation Type 02-3 as per Dwg 30	337 3-4022-42D	D-00 - 0 101 10W	ci Type oz ilicia	allig supply allu	installation of steel dap.								
ĺ	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12	1,350.24	\$ -	0 \$	-				
	Site Preparation supervisor	Site Preparation Supervisory	each each	0			\$ 675.12 \$ 167.19 \$			0 \$					
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	supervisor	Supervisory	each each each each each	0 0 0 0 0	29	24.00	\$ 167.19 \$ - \$ - \$ -	4,012.61 5 - 6 - 6 - 7 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -	S 208,457.2	8 \$ 213,820.13	s \$	833
	·	Supervisory n of Foundation Type D1-3 per Dwg	each each each each each each Total struct	0 0 0 0 0 0	29	24.00 EA	\$ 167.19 \$ - \$ - \$ - \$ - \$ -	4,012.61 5 - 6 - 6 - 6 - 7 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -	S 208,457.2	<mark>3 \$ 213,820.1</mark> 3	s \$	833
	S1-C63 Design, Assembly and Installation S1-C63 Design, Assembly and Installation of	Supervisory n of Foundation Type D1-3 per Dwg	each each each each each each each 73-4622-42DD-0	0 0 0 0 0 0	29	EA supply and ins	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ -	4,012.61 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 5 0 \$ 5	5,362.85	208,457.2	<mark>3 \$ 213,820.1</mark> 3	\$ \$	833
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	S1-C63 Design, Assembly and Installation of S1-C63 Design, Assembly and Installation of Site Preparation	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 Type D1 including 2 29	EA supply and ins	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ tallation of steel cap.	4,012.61 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 21,451.4 \$ 5,400.9 \$ 16,050.4	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 4 \$ 4 \$ 4 \$ 4 \$	- - - - - - - 5,362.85 \$ 1,350.24 4,012.61	208,457.2	<mark>3 \$ 213,820.1</mark> 3	\$ \$	833
	S1-C63 Design, Assembly and Installation of S1-C63 Design, Assembly and Installation of Site Preparation	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 Type D1 including 2 29	EA supply and ins	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ tallation of steel cap.	4,012.61 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,451.4	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 5,362.85 \$ 1,350.24 4,012.61	208,457.2	8 \$ 213,820.13	\$	833
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	S1-C63 Design, Assembly and Installation of S1-C63 Design, Assembly and Installation of Site Preparation	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 4	4 Type D1 including 2 29	EA supply and ins	\$ 167.19 \$ - \$ - \$ - \$ - \$ tallation of steel cap. \$ 675.12 \$ 167.19 \$ - \$ - \$ -	5 4,012.61 6	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 5,362.85 \$ 1,350.24 4,012.61 - - -	208,457.2	8 \$ 213,820.13	\$	833
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	S1-C63 Design, Assembly and Installation of S1-C63 Design, Assembly and Installation of Site Preparation supervisor	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 046 for Tower 1 4 4 4 4 4	4 Type D1 including 2 29	EA supply and ins	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 5,362.85 \$ 1,350.24 4,012.61 - - - - - - - -				833
	S1-C63 Design, Assembly and Installation of S1-C63 Design, Assembly and Installation of Site Preparation supervisor S1-C64 Design, Assembly and Installation of S1-C64 Design, Assembly and Installation of S1-C64 Design, Assembly and Installation of	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4	4 Type D1 including 2 29 one Type D2 include	EA g supply and ins 2.00 24.00	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6 - 6 - 6 - 6 - 6 - 6 - 6 5,362.85 1,350.24 4,012.61 6 - 6 - 6 - 6 - 7 - 8 5,362.85	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 5,362.85 \$ 1,350.24 4,012.61 - - - - - - 5,362.85 \$ 5,362.85				833
	S1-C63 Design, Assembly and Installation S1-C63 Design, Assembly and Installation of Site Preparation supervisor S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation of	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory n of Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 4 4 4 4 4 4 4 4 4 0	4 Type D1 including 2 29 or Type D2 include 2	EA g supply and ins 2.00 24.00 EA ding supply and 2.00 2.00	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6 - 6 - 6 - 6 - 6 - 6 5,362.85 6 1,350.24 4,012.61 6 - 6 - 6 - 6 - 7 - 8 5,362.85 6 1,350.24 7 - 8 5 - 9 6 - 9 7	\$ - \$ - \$ - \$ - \$ - \$ - \$ 21,451.4; \$ 5,400.9; \$ 16,050.4; \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - - - - - - - - - - -				833
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	S1-C63 Design, Assembly and Installation S1-C63 Design, Assembly and Installation of Site Preparation supervisor S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation of	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory n of Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 Type D1 including 2 29 or Type D2 include 2 29	EA g supply and ins 2.00 24.00 EA ding supply and 2.00 2.00	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$					833
	S1-C63 Design, Assembly and Installation S1-C63 Design, Assembly and Installation of Site Preparation supervisor S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation of	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory n of Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 Type D1 including 2 29 er Type D2 include 2 29	EA g supply and ins 2.00 24.00 EA ding supply and 2.00 2.00	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ 167.12 \$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6	\$ - \$ - \$ - \$ - \$	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$					833
	S1-C63 Design, Assembly and Installation S1-C63 Design, Assembly and Installation of Site Preparation supervisor S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation S1-C64 Design, Assembly and Installation of	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory n of Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 4	4 Type D1 including 2 29 or Type D2 include 2 29	EA g supply and ins 2.00 24.00 EA ding supply and 2.00 2.00	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ - \$ - \$ - \$ - \$	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$					833
	S1-C63 Design, Assembly and Installation of S1-C63 Design, Assembly and Installation of Site Preparation supervisor S1-C64 Design, Assembly and Installation of S1-C64 Design, Assembly and Installation of Site Preparation	n of Foundation Type D1-3 per Dwg f Foundation Type D1-3 per Dwg 50557 Site Preparation Supervisory n of Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg f Foundation Type D2-3 as per Dwg Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 Type D1 including 2 29 or Type D2 include 2 29	EA g supply and ins 2.00 24.00 EA ding supply and 2.00 2.00	\$ 167.19 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5 4,012.61 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	\$ - \$ - \$ - \$ - \$	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$					833



	ction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost		
t		l	Units		Hours per			0.1.1.1				Manhours and	T	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials	
S1-C65 Design, Assembly and Installation	of Foundation Type F1 2 as not Dwg	Total struct	ure count:	0	EA			\$	- \$	5,362.85	¢ 209.457.2	8 \$ 213,820.1	2 ¢	
S1-C65 Design, Assembly and Installation of	Foundation Type E1-3 as per Dwg	5573-4622-42D	D-0046 for Towe			installation of steel can		y	- Ψ	3,302.03	200,437.2	.O \$ 213,020.1	J \$	
or occupant, recommendation of	Touridation Type ET of do per Bing occ	3070 TOLL TEB	D 00 10 101 10W	, 1, po E 1 inolaa	mig cappiy and i	motanation of otoor cap.								
Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12	1,350.24	\$	- 0 \$	-				
supervisor	Supervisory	each	0	29	24.00	\$ 167.19	4,012.61	\$	- 0 \$	=				
		each	0			\$ - 9		•	- 0 \$	-				
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		odon			!		5,362.85		- \$	_				
S1-C66 Rock anchor to be installed with S	61-C60 to S1-C65 item above as per	Total struct	ure count:	480	LM			\$	- \$	-	\$ 468.5	8 \$ 468.5	58 \$	224
S1-C66 Rock anchor to be installed with S1-C	C60 to S1-C65 item above as per the de	esign drawings	and technical sp	ecifications (leng	<mark>it</mark> h in bog not co	nsidered)								
			T		_									
		each	480			\$ - 5			- 480 \$	-				
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		each each each	480 480 480			\$ - S \$ - S		\$ \$	- 480 \$ - 480 \$ - 480 \$ - \$	- - -				
S1-C67 Supply, and installation of H-Piles,		each each	480 480 480	2400	LM	\$ - S \$ - S		\$ \$ \$	- 480 \$ - 480 \$ - 480 \$	- - -	\$ 580.6	<mark>:9</mark> \$ 580.6	6 <mark>9</mark> \$ 1	,393
S1-C67 Supply, and installation of H-Piles, S1-C67 Supply, and installation of H-Piles, H		each each each	480 480 480	2400	LM	\$ - S \$ - S		\$ \$	- 480 \$ - 480 \$ - 480 \$ - \$	- - -	\$ 580.6	<mark>9</mark> \$ 580.6	6 <mark>9</mark> \$ 1	,393
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		each each each	480 480 480	2400	LM	\$ - S \$ - S	-	\$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$	- - - -	\$ 580.6	: <mark>9 \$ 580.€</mark>	6 <mark>9 \$ 1</mark>	,393
		each each each Total struct	480 480 480 ure count:	2400	LM	\$ - S	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - -	\$ 580.6	9 \$ 580.6	5 <mark>9</mark> \$ 1	,393
		each each Total struct each each	480 480 480 2400 2400 2400 2400 2400	2400	LM	\$ - \$ \$ - \$ \$ - \$ \$ - \$	- - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - -	\$ 580.6	9 \$ 580.€	6 <mark>9</mark> \$ 1	,393
		each each Total struct each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400	2400	LM	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - -	\$ 580.6	9 \$ 580.6	6 <mark>9</mark> \$ 1	,393
		each each each Total struct each each each each each each each eac	480 480 480 480 2400 2400 2400 2400 2400	2400	LM	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - - - - - - - -	\$ 580.6	9 \$ 580.€	6 <mark>9</mark> \$ 1	,393
		each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400	2400	LM	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	- - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - - - - - - - - -	\$ 580.6	9 \$ 580.6	6 <mark>9</mark> \$ 1	,393
		each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400		LM	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	- - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - - - - - - - - - - -	\$ 580.6	9 \$ 580.6	6 <mark>9</mark> \$ 1	,393,
		each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400		LM	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - - - - - - - - - - - -	\$ 580.6	9 \$ 580.6	6 <mark>9</mark> \$ 1	,393
		each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400		LM	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - - - - - - - - - - -	\$ 580.6	9 \$ 580.6	6 <mark>9</mark> \$ 1	,393,
S1-C67 Supply, and installation of H-Piles, H		each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400		LM	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$	- - - - - - - - - - - - - -	\$ 580.6	9 \$ 580.6	6 <mark>9</mark> \$ 1	,393,
S1-C67 Supply, and installation of H-Piles, H	IP 360 x 108, Grade 350AT	each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400 2400 2400 2400 2400 2400			\$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - \$ - 2400 \$	- - - - - - - - - - - - - - - -				
S1-C67 Supply, and installation of H-Piles, H Bog and Poor Soil S1-C68 Supply and Installation of Cribs fo	P 360 x 108, Grade 350AT	each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400 2400 2400 2400 2400 2400	10700	M2	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	- - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - \$ - 2400 \$	- - - - - - - - - - - - - -				
S1-C67 Supply, and installation of H-Piles, H	P 360 x 108, Grade 350AT	each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400 2400 2400 2400 2400 2400	10700	M2	\$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	- - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - \$ - 2400 \$	- - - - - - - - - - - - - - - -				
S1-C67 Supply, and installation of H-Piles, H Bog and Poor Soil S1-C68 Supply and Installation of Cribs fo	P 360 x 108, Grade 350AT	each each each each each each each each	480 480 480 480 2400	10700 D2, E1 for any t	M2	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 3400 \$ -	- - - - - - - - - - - - - - - - - - -				
Bog and Poor Soil S1-C68 Supply and Installation of Cribs for S1-C68 Supply and Installation of Cribs for experience of the supply and Installation of Cribs for experience of t	r excavation protection of tower types xcavation protection of tower types A1,	each each each each each each each each	480 480 480 480 2400	10700 D2, E1 for any t	M2 ype of Foundation 0.30	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$	-42DD-0069 and	\$ 4,731,73 \$ 1,415,74 \$ 1,341,13	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 300	- - - - - - - - - - - - - - - - - - -				
Bog and Poor Soil S1-C68 Supply and Installation of Cribs for S1-C68 Supply and Installation of Cribs for S1-C68 Supply and Installation of Cribs for extending Assembly Installation	r excavation protection of tower type xcavation protection of tower types A1,	each each each each each each each each	480 480 480 480 2400 1070	10700 D2, E1 for any t	M2 ype of Foundati 0.30 0.13 0.05	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$	-42DD-0069 and -132.31 -125.34 -50.14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 30					
Bog and Poor Soil S1-C68 Supply and Installation of Cribs fo S1-C68 Supply and Installation of Cribs for extended to the state of the s	r excavation protection of tower type xcavation protection of tower types A1,	each each each each each each each each	480 480 480 480 2400 2400 2400 2400 2400 2400 2400 2400 2400 2400 2400 2400 10700 10700 10700 10700	10700 D2, E1 for any ty 1 20 20 19	M2 ype of Foundation 0.30 0.13 0.05 0.10	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 2400 \$ - 3					
Bog and Poor Soil S1-C68 Supply and Installation of Cribs for S1-C68 Supply and Installation of Cribs for S1-C68 Supply and Installation of Cribs for extending Assembly Installation	r excavation protection of tower type xcavation protection of tower types A1, Hauling Grilage Installation Grilage Installation	each each each each each each each each	480 480 480 480 2400 1070	10700 D2, E1 for any ty 1 20 20 19	M2 ype of Foundati 0.30 0.13 0.05	\$ - \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$		\$ 4,731,73 \$ 1,415,74 \$ 1,341,13 \$ 536,45 \$ 1,223,82 \$ 214,58	- 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - 480 \$ - 2400 \$,393, 1,721,



	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per							Manhours and	L
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Earthwork S1-C69 Transportation of native backfill S1-C69 Transportation of native backfill	Total structure count:	2000	КМ		\$	98,009.33	\$	49.00	\$ -	\$ 49.00	-
	Hauling Foundation Haul	each 2000	17	0.11	\$ 441.04 \$	49.00 \$	98,009.33	2000 \$	49.00			
	roundation nadi	each 2000		0.11	\$ - \$		-	2000 \$	-			
		each 2000			\$ - \$			2000 \$	_			
		each 2000			\$ - \$			2000 \$	_			
		each 2000			\$ - \$			2000 \$	_			
		each 2000			\$ - \$		-	2000 \$	_			
		each 2000			\$ - \$		-	2000 \$	_			
		each 2000			\$ - \$			2000 \$				
		each 2000			\$ - \$		-	2000 \$	_			
		2000		l	\$	49.00 \$	98,009.33		49.00			
					Ψ	43.00 _ψ	30,000.00	Ψ	40.00			
	S1-C70 Supply and transportation of approved fill from an alternate S1-C70 Supply and transportation of approved fill from an alternate source/processe	-	21000	M3 * KM		\$	564,278.79		26.87	\$ 106.61	\$ 133.48	\$ 2,238,705.00
	Hauling Camp Haul	each 21000	46	0.11	\$ 241.83 \$		564,278.79		26.87			
		each 21000			\$ - \$	Ψ		21000 \$	-			
		each 21000			\$ - \$			21000 \$	-			
		each 21000			\$ - \$			21000 \$	-			
		each 21000				- \$		21000 \$	-			
		each 21000			\$ - \$			21000 \$	-			
		each 21000			\$ - \$			21000 \$	=			
		each 21000			\$ - \$			21000 \$	-			
		each 21000			\$ - \$			21000 \$	-			
				$oldsymbol{A}$	\$	26.87 \$	564,278.79	\$	26.87			
	S1-C71 Rock blasting/preparation S1-C71 Rock blasting/preparation	Total structure count:	1100	М3		\$	1,258,135.51	\$	1,143.76	\$ -	\$ 1,143.76	-
	Site Prep Found Excavation	each 1100	19	1.00	\$ 1,143.76 \$	1,143.76 \$	1,258,135.51	1100 \$	1,143.76			
		each 1100			\$ - \$	- \$	-	1100 \$	-			
		each 1100			\$ - \$	- \$	=	1100 \$	=			
		each 1100			\$ - \$	- \$	=	1100 \$	=			
		each 1100			\$ - \$	- \$	=	1100 \$	-			
		each 1100			\$ - \$	- \$	=	1100 \$	-			
		each 1100			\$ - \$	- \$	-	1100 \$	-			
		each 1100			\$ - \$		=	1100 \$	-			
		each 1100			\$ - \$	- \$	-	1100 \$	-			
					\$	1,143.76 \$	1,258,135.51	\$	1,143.76			



ſ	NALCOR 350 kV HVdc Line Construction From	ont 3 (Newfoundland)					Crew Cost						Total Unit Cost	
nent		,	ı	Jnits		Hours per							Manhours and	
ľ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	C4 D Tower Accombly and Exaction (C4 F	Nv1		Tawar Cattin	a Datio	0.00	Haliaantar	4000/	Crons					
	S1-D Tower Assembly and Erection (S1-D			Tower Settin	ig Ratio	0.00	Helicopter	100%	Crane					
	Assembly and Erection of Suspension To													
	S1-D1 Assembly and Erection of Suspension Tow				0	EA			\$ -		\$ 45,765.74	-	\$ 45,765.74	\$
	S1-D1 Assembly and Erection of Suspension Tower				42000									
Г	Total Tower Weight With Guys and Ext. (lb) = 1 Site Preparation			Section Weight (lb) =	13999	2.00	¢ 675.10	\$ 1,350.24	¢	0	r	٦		
-	Haul	Site Preparation	each each	0		5.90	\$ 675.12 \$ 441.04					_		
<u> </u>	Setup Blocks	Hauling Blocking Crew	each	0		2.00	· · · · · · · · · · · · · · · · · · ·	\$ 563.68	\$ -			-		
<u> </u>	Assemble Tower	Lattice Assembly	each	0		24.00	\$ 1,183.92	\$ 28,410.51	T	0		_		
	Install Guy Strand	Guy Install	each	0		2.00		\$ 2,517.30						
	Helicopter Set	HL Helicopter	each	0		0.00	\$ 21,899.72		\$ -					
_	Crane Set	Y- Tower Erection	each	0		2.50	\$ 1,482.09		\$ -	0		1		
7	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00		\$ -					
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$ 636.64			0	\$ -			
Ī	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444.07			0	\$ -			
F	Tie -in	Tie -in	each	0	12	2.00	\$ 676.30	\$ 1,352.60	\$ -	0	\$ -			
_	Total Co	ost = \$ 2.83	0 per pound					\$ 45 ,765.74	\$ -		\$ -			
	S1-D2 Assembly and Erection of Suspension Tow		Total struct		0	EA			\$ -		\$ 46,796.19	-	\$ 46,796.19	\$
	S1-D2 Assembly and Erection of Suspension Tower	,,												
r		15440 Total Tower Height(ft) =		Section Weight (lb) =	14465							7		
-	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12							
	Haul	Hauling	each	0	1	6.09	\$ 441.04					_		
-	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 281.84					_		
	Assemble Tower	Lattice Assembly	each	0		24.79	\$ 1,183.92				\$ -	_		
	Install Guy Strand	Guy Install	each	0	39 27	2.00	\$ 1,258.65 \$ 21,899.72							
_	Helicopter Set Crane Set	HL Helicopter	each each	0		0.00 2.50	\$ 21,899.72 \$ 1,482.09		\$ -	-		4		
_	Plumb Tower	Y- Tower Erection	each	0		2.00		\$ 1,826.00		_		_		
_	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each	0		2.00	\$ 636.64					_		
_	Hang Travellers	Haul Travellers&Glass Hang Travellers	each	0	<u> </u>	1.50	\$ 1,444.07	\$ 2,166.10		_		_		
_	Tie -in	Hang Travellers Tie -in	each	0		2.00	\$ 6 76.30		•	_		_		
L	Total Co		1 per pound			2.00	\$ -		\$ -	_				
	Total Ot	σοι ψ 2.01	i poi pouriu				Ψ	\$ 46,796.19	7		\$ -			
								, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*		· ·	_		
: :	S1-D3 Assembly and Erection of Suspension Tow	ver Type "A1 + 3" as per dwg	. Total struct	ure count:	0	EA			\$ -		\$ 47,377.35	\$ -	\$ 47,377.35	\$
	S1-D3 Assembly and Erection of Suspension Tower							,						
		15753 Total Tower Height(ft) =	133	Section Weight (lb) =	14727							-		
_		10700 Total Tower Height(It)			_	0.00	075.40		Φ.	0	\$ -			
3	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12	\$ 1,350.24						
	Site Preparation Haul	3 ()	each each	0	1	6.20	\$ 441.04	\$ 2,735.94	\$ -	0	\$ -			
: !	Site Preparation Haul Setup Blocks	Site Preparation Hauling Blocking Crew	each each each	0	1 3	6.20 2.00	\$ 441.04 \$ 281.84	\$ 2,735.94 \$ 563.68	\$ - \$ -	0	\$ - \$ -			
<u>:</u> :	Site Preparation Haul Setup Blocks Assemble Tower	Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each	0 0 0	1 3 4	6.20 2.00 25.24	\$ 441.04 \$ 281.84 \$ 1,183.92	\$ 2,735.94 \$ 563.68 \$ 29,886.96	\$ - \$ - \$ -	0 0 0	\$ - \$ - \$	- - - -		
]]	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each	0 0 0	1 3 4 39	6.20 2.00 25.24 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30	\$ - \$ - \$ -	0 0 0	\$ - \$ - \$ - \$ -	- - - -		
; ; ;	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each each each	0 0 0 0	1 3 4 39 27	6.20 2.00 25.24 2.00 0.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30 \$ -	\$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
<u> </u>	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each each each	0 0 0 0 0	1 3 4 39 27 40	6.20 2.00 25.24 2.00 0.00 2.50	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30 \$ - \$ 3,705.24	\$ - \$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
3 7 1	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each each	0 0 0 0 0 0	1 3 4 39 27 40 41	6.20 2.00 25.24 2.00 0.00 2.50 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	0 0 0 0 0 0 0 0	1 3 4 39 27 40 41 7	6.20 2.00 25.24 2.00 0.00 2.50 2.00 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
1 1 1 1 1 1 1 1 1 1	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Sile Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers	each each each each each each each each	0 0 0 0 0 0 0 0 0	1 3 4 39 27 40 41 7 8	6.20 2.00 25.24 2.00 0.00 2.50 2.00 2.00 1.50	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
1 1 1 1 1 1 1 1 1 1	Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	each each each each each each each each	0 0 0 0 0 0 0 0	1 3 4 39 27 40 41 7 8	6.20 2.00 25.24 2.00 0.00 2.50 2.00 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 2,735.94 \$ 563.68 \$ 29,886.96 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			



I	NALCOR 350 kV HVdc Line Construction	n Front 3 (Newfoundland)					Crew Cost	· · · · · · · · · · · · · · · · · · ·					Total Unit Cost	
	.			Units		Hours per							Manhours and	
L	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	04.044 11 15 11 10 11	T T "A4 45"	T-1-1 -1						A		A. 40.7.00	•	A 40 407 00	
	S1-D4 Assembly and Erection of Suspension To.			ture count:	0	EA			-		\$ 48,407.80	-	\$ 48,407.80	a
	Total Tower Weight With Guys and Ext. (lb) =	wer Type AT + 4.5 as per dwg. 16268 Total Tower Height(ft) =		Section Weight (lb) =	15192									
Г	Site Preparation		each	O Section Weight (ib) =		2.00	\$ 675.12	\$ 1,350.24	-	0	\$ -			
F	Haul	Site Preparation	each	0		6.40	\$ 441.04				\$ -			
ŀ	Setup Blocks	Hauling Blocking Crew	each	0	-	2.00	\$ 281.84			0				
_ L	Assemble Tower	Blocking Crew	each	0	-	26.04		\$ 30,831.00		0				
-	Install Guy Strand	Guy Install	each	0		2.00		\$ 2,517.30		0				
	Helicopter Set	HL Helicopter	each	0		0.00		\$ -	\$ -	0	<u> </u>			
	Crane Set	Y- Tower Erection	each	0		2.50	\$ 1,482.09	\$ 3,705.24	7	0				
-	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00		0				
-	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$ 636.64			0				
-	Hang Travellers	Hang Travellers	each	0		1.50	\$ 1,444.07	, , ,		0				
-	Tie -in	Tie -in	each	0		2.00	\$ 676.30			0				
L			782 per pound	Ů	12	2.00	<u> </u>	\$ -		0				
		a. 000t	02 po. pouu	I				\$ 48,407.80			\$ -			
								Ψ 10,101.00	•	_	Ψ			
	S1-D5 Assembly and Erection of Suspension	Tower Type "A1 + 6" as per dw	a. Total struc	ture count:	88	EA			\$ 4,275,357.98		\$ 48,583.61	\$ -	\$ 48,583.61	\$
	S1-D5 Assembly and Erection of Suspension Tov					<u>-</u> -					, ,,,,,,,,	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Total Tower Weight With Guys and Ext. (lb) =	16398 Total Tower Height(ft) =		Section Weight (lb) =	15272									
Ī	Site Preparation	Site Preparation	each	88		2.00	\$ 675.1 2	\$ 1,350.24	\$ 118,821.55	88	\$ 1,350.24			
-	Haul	Hauling	each	88		6.43	\$ 441.04							
Ī	Setup Blocks	Blocking Crew	each	88		2.00	\$ 281.84							
Į.	Assemble Tower	Lattice Assembly	each	88		26.18		\$ 30,992.06		88				
	Install Guy Strand	Guy Install	each	88	39	2.00	\$ 1,258.65	φ 2,517.30	φ	00	\$ 2,517.30			
Į	Install Guy Strand Helicopter Set	Guy Install HL Helicopter	each each	88		0.00	\$ 1,258.65 \$ 21,899.72							
					27	_		\$ -	\$ -	88	\$ -			
-	Helicopter Set	HL Helicopter	each	88	27 40	0.00	\$ 21,899.72	\$ - \$ 3,705.24	\$ - \$ 326,060.71	88	\$ - \$ 3,705.24			
	Helicopter Set Crane Set	HL Helicopter Y- Tower Erection	each each	88 88	27 40 41	0.00 2.50	\$ 21,899.72 \$ 1,482.09	\$ - \$ 3,705.24 \$ 1,826.00	\$ 326,060.71 \$ 160,688.27	88 88 88	\$ - \$ 3,705.24 \$ 1,826.00			
	Helicopter Set Crane Set Plumb Tower	HL Helicopter Y- Tower Erection Tower Plumb	each each each	88 88 88	27 40 41 7	0.00 2.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ - \$ 3,705.24 \$ 1,826.00	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18	88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellens&Glass	each each each each	88 88 88 88	27 40 41 7 8	0.00 2.50 2.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84	88 88 88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Giass Hang Travellers Tie -in	each each each each each	88 88 88 88 88	27 40 41 7 8	0.00 2.50 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84	88 88 88 88 88	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60			
-	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Giass Hang Travellers Tie -in	each each each each each each	88 88 88 88 88	27 40 41 7 8	0.00 2.50 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ -	88 88 88 88 88 88	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60			
-	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Giass Hang Travellers Tie -in	each each each each each each	88 88 88 88 88	27 40 41 7 8 12	0.00 2.50 2.00 2.00 1.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98	88 88 88 88 88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ -			
-	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension	HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in Tower Type "A1 + 7.5" as per	each each each each each each 779 per pound	88 88 88 88 88 88	27 40 41 7 8	0.00 2.50 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ -	88 88 88 88 88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ -	\$ -	\$ 49,286.86	\$
-	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension Tota S1-D6 Assembly and Erection of Suspension Tota	HL Helicopter	each each each each each each ryper pound Total struc	88 88 88 88 88 88 80 80 80 80 80 80 80 8	27 40 41 7 8 12	0.00 2.50 2.00 2.00 1.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98	88 88 88 88 88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61	\$ -	\$ 49,286.86	\$
- - - - -	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Tota Total Tower Weight With Guys and Ext. (Ib) =	HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in Tower Type "A1 + 7.5" as per	each each each each each each each rotal struc 505573-4622-43	88 88 88 88 88 88 80 80 80 80 80 80 80 8	27 40 41 7 8 12 39	0.00 2.50 2.00 2.00 1.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60	88 88 88 88 88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 49,286.86	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension Tota Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	HL Helicopter	each each each each each each each 779 per pound Total struc 505573-4622-43 148 each	88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39	0.00 2.50 2.00 2.00 1.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60	88 88 88 88 88 88 88	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 49,286.86 \$ 1,350.24	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft):	each each each each each each each rotal struc 505573-4622-43	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2	0.00 2.50 2.00 2.00 1.50 2.00 EA	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21	88 88 88 88 88 88 88 88 98 98 99 99 99 9	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08	\$ -	\$ 49,286.86	\$
- - - - - - - - - -	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers Class Hang Travellers Tile -in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) = Site Preparation	each each each each each each each 779 per pound Total struc 505573-4622-43 148 each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1	0.00 2.50 2.00 2.00 1.50 2.00 EA	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70	88 88 88 88 88 88 88 88 93 93 93 93 93 93	\$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension 1-D6 Assembly and Erection of Suspension Tow Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Class Hang Travellers Tile -in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) = Site Preparation Hauling	each each each each each each 779 per pound Total struc 505573-4622-43 148 each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 1 3 4	0.00 2.50 2.00 2.00 1.50 2.00 EA 2.00 6.57 2.00 26.72	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.98	88 88 88 88 88 88 88 93 93 93 93 93 93 93 93	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	HL Helicopter	each each each each each each 79 per pound Total struc 505573-4622-43 148 each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 39	2.00 2.00 2.00 2.00 1.50 2.00 EA 2.00 6.57 2.00 26.72 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.98 \$ 98,174.68	88 88 88 88 88 88 88 88 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (1b) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each 79 per pound Total struc 505573-4622-43 = 148 each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 89 39 39 39 39 39	27 40 41 7 8 12 39 15589 2 1 3 4 39 27	2.00 2.50 2.00 1.50 2.00 EA 2.00 6.57 2.00 26.72 2.00 0.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.99 \$ 98,174.68	88 88 88 88 88 88 88 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (1b) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each each each 79 per pound Total struc 505573-4622-43 each each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 39 27 40	2.00 2.57 2.00 2.00 1.50 2.00 EA	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ 48,583.61 \$ 2,896.08 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24	\$ 326,060.71 \$ 160,688.27 \$ 112,048.16 \$ 190,616.82 \$ 119,029.11 \$ - \$ 4,275,357.96 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.99 \$ 98,174.66 \$ - \$ 144,504.18	88 88 88 88 88 88 88 39 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Class Hang Travellers Tie-in All Tower Type A1 + 7.5" as per wer Type A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Hauling H	each each each each each each 79 per pound Total struc 505573-4622-43 = 148 each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 39 27 40 41	2.00 2.50 2.00 1.50 2.00 EA 2.00 6.57 2.00 26.72 2.00 0.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ 48,583.61 \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00	\$ 326,060.71 \$ 160,688.27 \$ 112,048.16 \$ 190,616.82 \$ 119,029.11 \$ - \$ 4,275,357.96 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.95 \$ 98,174.65 \$ - \$ 144,504.18 \$ 71,214.12	88 88 88 88 88 88 88 39 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (1b) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in All Tower Type All + 7.5" as per wer Type All + 7.5" as per dwg. 16766 Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Erection Hauling Ha	each each each each each each each 79 per pound Total struc 505573-4622-43 each each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 3 9 27 40 41 7	2.00 2.50 2.00 1.50 2.00 4.50 2.00 6.57 2.00 26.72 2.00 0.00 2.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ 48,583.61 \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ 326,060.71 \$ 160,688.27 \$ 112,048.16 \$ 190,616.84 \$ 119,029.11 \$ 4,275,357.96 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.95 \$ 98,174.65 \$ 144,504.16 \$ 71,214.12 \$ 49,657.72	88 88 88 88 88 88 88 39 39 39 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 3 9 27 40 41 7 8	2.00 2.57 2.00 2.00 1.50 2.00 EA 2.00 6.57 2.00 26.72 2.00 0.00 2.50 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ 48,583.61 \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27	\$ 326,060.71 \$ 160,688.27 \$ 112,048.16 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.96 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.95 \$ 98,174.65 \$ 144,504.16 \$ 71,214.12 \$ 49,657.72	88 88 88 88 88 88 88 39 39 39 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie-in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per Wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft): Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Frection Tower Plumb Haul Travellers&Glass	each each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 39 27 40 41 7 8	2.00 2.50 2.00 1.50 2.00 4.50 2.00 6.57 2.00 26.72 2.00 0.00 2.50 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 326,060.71 \$ 160,688.27 \$ 112,048.16 \$ 190,616.84 \$ 119,029.11 \$ 4,275,357.96 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.95 \$ 98,174.65 \$ 98,174.65 \$ 71,214.12 \$ 49,657.72 \$ 84,477.92	88 88 88 88 88 88 88 39 39 39 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	\$ -	\$ 49,286.86	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D6 Assembly and Erection of Suspension S1-D6 Assembly and Erection of Suspension Tota Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellens&Glass Hang Travellers Tie-in al Cost = \$ 2.7 Tower Type "A1 + 7.5" as per Wer Type "A1 + 7.5" as per dwg. 16766 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Flumb Haul Travellens&Glass Hang Travellers Tie-in	each each each each each each each each	88 88 88 88 88 88 88 88 88 88 88 88 88	27 40 41 7 8 12 39 15589 2 1 3 4 39 27 40 41 7 8	2.00 2.57 2.00 2.00 1.50 2.00 EA 2.00 6.57 2.00 26.72 2.00 0.00 2.50 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ - \$ 48,583.61 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ - \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ 326,060.71 \$ 160,688.27 \$ 112,048.18 \$ 190,616.84 \$ 119,029.11 \$ - \$ 4,275,357.98 \$ 1,922,187.60 \$ 52,659.55 \$ 112,947.21 \$ 21,983.70 \$ 1,233,816.95 \$ 98,174.65 \$ 71,214.12 \$ 49,657.72 \$ 84,477.92 \$ 52,751.54	88 88 88 88 88 88 88 39 39 39 39 39 39 39 39	\$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60 \$ \$ 48,583.61 \$ 49,286.86 \$ 1,350.24 \$ 2,896.08 \$ 563.68 \$ 31,636.33 \$ 2,517.30 \$ \$ 3,705.24 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,352.60	\$ -	\$ 49,286.86	\$



	NALCOR 350 kV HVdc Line Construction Fro	ont 3 (Newfoundland)					Crev	w Cost						Total Unit Cost	
nt		,		Units		Hours per								Manhours and	
	Description			Total	Crew No.	unit	Hourly I	Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
										• / • • • • • • •		/a aaa =a A		A	
	S1-D7 Assembly and Erection of Suspension Towe				45	EA				\$ 2,242,742.2	2 \$	49,838.72 \$	-	\$ 49,838.72	\$
	S1-D7 Assembly and Erection of Suspension Tower T Total Tower Weight With Guys and Ext. (Ib) = 17				45000										
Б	Site Preparation Site Prepar	7066 Total Tower Height(ft) =		Section Weight (lb) =	15838 2	2.00	Φ.	675.40	1,350.24	\$ 60,761.0	2 45 \$	1,350.24			
-	Haul	Site Preparation	each each	45			\$	675.12 441.04				2,942.36			
	Setup Blocks	Hauling	each	45		2.00	\$	281.84				563.68			
	Assemble Tower	Blocking Crew	each	45		27.15	Φ Φ		32,141.91			32,141.91			
-	Install Guy Strand	Lattice Assembly Guy Install	each	45		2.00	Φ ¢		2,517.30			2,517.30			
	Helicopter Set	HL Helicopter	each	45		0.00	ψ •			\$ 113,270.4	45 \$	2,517.50			
-	Crane Set	Y- Tower Erection	each	45		2.50	\$	1,482.09	3,705.24	T		3,705.24			
	Plumb Tower	Tower Plumb	each	45		2.00	\$	913.00	1,826.00			1,826.00			
<u> </u>	haul Insulators and Travellers	Haul Travellers&Glass	each	45		2.00	\$	636.64	1,273.27			1,273.27			
	Hang Travellers	Hang Travellers	each	45		1.50	\$	1,444.07				2,166.10			
F	Tie -in	Tie -in	each	45		2.00	\$	676.30	1,352.60			1,352.60			
F	1	10 11	each	45		2.00	\$,002.00			
F			each	45			\$	_	- 1			_			
L	Total Co	ost = \$ 2.844	per pound				Ψ			\$ 2,242,742.2		49,838.72			
	. 514. 55	ψ 2.5 .	. Po. poulla	I								10,000112			
	S1-D8 Assembly and Erection of Suspension Towe	er Type "A1 + 10.5" as per	Total struct	ture count:	56	EA				\$ 2,850,314.4	3 \$	50,898.47 \$	-	\$ 50,898.47	\$
	S1-D8 Assembly and Erection of Suspension Tower T										•	30,000		• 00,000	•
		7594 Total Tower Height(ft) =		Section Weight (lb) =	16316										
Ī.	Site Preparation	Site Preparation	each	56		2.00	\$	675.12	1,350.24	\$ 75,613.7	2 56 \$	1,350.24			
-	Haul	Hauling	each	56		6.87	\$	4 41.04				3,031.24			
Ī	Setup Blocks	Blocking Crew	each	56		2.00	\$	281.84	563.68			563.68			
	Assemble Tower	Lattice Assembly	each	56		27.97	\$		33,112.78			33,112.78			
	Install Guy Strand	Guy Install	each	56		2.00	\$	1,258.65	2,517.30			2,517.30			
	Helicopter Set	HL Helicopter	each	56		0.00	\$	21,899. 72	-	\$ -	56 \$	-			
- 7	Crane Set	Y- Tower Erection	each	56	40	2.50	\$	1,482.09	3,705.24	\$ 207,493.1	8 56 \$	3,705.24			
Ī	Plumb Tower	Tower Plumb	each	56	41	2.00	\$	913.00	1,826.00	\$ 102,256.1	7 56 \$	1,826.00			
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	56	7	2.00	\$	636.64	1,273.27	\$ 71,303.3	9 56 \$	1,273.27			
Ī	Hang Travellers	Hang Travellers	each	56	8	1.50	\$	1,444.07	2,166.10	\$ 121,301.6	2 56 \$	2,166.10			
Ī	Tie -in	Tie -in	each	56	12	2.00	\$	676.30	1,352.60	\$ 75,745.8	56 \$	1,352.60			
			each	56			\$	-	-	\$ -	56 \$	-			
ſ	Total Co	ost = \$ 2.826	per pound						50,898.47	\$ 2,850,314.4	3 \$	50,898.47			
L	S1-D9 Assembly and Erection of Suspension Towe				57	EA				\$ 2,929,884.9	2 \$	51,401.49 \$	-	\$ 51,401.49	\$
	S1-D9 Assembly and Erection of Suspension Tower T														
		7872 Total Tower Height(ft) =		Section Weight (lb) =	16544										
	Site Preparation	Site Preparation	each	57		2.00	\$	675.12	1,350.24			1,350.24			
	Haul	Hauling	each	57		6.97	\$	441.04				3,073.43			
		-			3	2.00	\$		563.68			563.68			
	Setup Blocks	Blocking Crew	each	57		00.00			33 573 62	\$ 1,913,696.1	5 57 \$	22 672 62			
: : :	Setup Blocks Assemble Tower	Blocking Crew Lattice Assembly	each	57	4	28.36	\$	1,183.92				33,573.62			
	Setup Blocks Assemble Tower Install Guy Strand	Blocking Crew Lattice Assembly Guy Install	each each	57 57	4 39	2.00	\$	1,258.65	2,517.30	\$ 143,486.0	7 57 \$	2,517.30			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each	57 57 57	4 39 27	2.00 0.00	1 .	1,258.65 21,899.72	2,517.30	\$ 143,486.0 \$ -	7 57 \$ 57 \$	2,517.30			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each	57 57 57 57	39 27 40	2.00 0.00 2.50	\$	1,258.65 21,899.72 1,482.09	5 2,517.30 5 - 5 3,705.24	\$ 143,486.0 \$ - \$ 211,198.4	7 57 \$ 57 \$ 1 57 \$	2,517.30 - 3,705.24			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Blocking Crew Lattice Assembly Guy Install HL Helicopler Y- Tower Erection Tower Plumb	each each each each each	57 57 57 57 57 57	4 39 27 40 41	2.00 0.00 2.50 2.00	1 .	1,258.65 21,899.72 1,482.09 913.00	2,517.30 3,705.24 1,826.00	\$ 143,486.0 \$ - \$ 211,198.4 \$ 104,082.1	7 57 \$ 57 \$ 1 57 \$ 7 57 \$	2,517.30 - 3,705.24 1,826.00			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	57 57 57 57 57 57	4 39 27 40 41 7	2.00 0.00 2.50 2.00 2.00	\$ \$ \$	1,258.65 21,899.72 1,482.09 913.00 636.64	5 2,517.30 6 - 6 3,705.24 6 1,826.00 6 1,273.27	\$ 143,486.0 \$ - \$ 211,198.4 \$ 104,082.1 \$ 72,576.6	7 57 \$ 57 \$ 1 57 \$ 7 57 \$ 6 57 \$	2,517.30 - 3,705.24 1,826.00 1,273.27			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each	57 57 57 57 57 57 57	4 39 27 40 41 7 8	2.00 0.00 2.50 2.00 2.00 1.50	\$	1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07	2,517.30 3,705.24 1,826.00 1,273.27 2,166.10	\$ 143,486.0 \$ - \$ 211,198.4 \$ 104,082.1 \$ 72,576.6 \$ 123,467.7	7 57 \$ 57 \$ 1 57 \$ 7 57 \$ 6 57 \$ 2 57 \$	2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	57 57 57 57 57 57 57 57	4 39 27 40 41 7 8	2.00 0.00 2.50 2.00 2.00	\$ \$ \$	1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	5 2,517.30 6 3,705.24 6 1,826.00 6 1,273.27 6 2,166.10 6 1,352.60	\$ 143,486.0 \$ - \$ 211,198.4 \$ 104,082.1 \$ 72,576.6 \$ 123,467.7 \$ 77,098.4	7 57 \$ 57 \$ 1 57 \$ 1 57 \$ 6 57 \$ 2 57 \$ 0 57 \$	2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10 1,352.60			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	each each each each each each each	57 57 57 57 57 57 57 57 57	4 39 27 40 41 7 8	2.00 0.00 2.50 2.00 2.00 1.50	\$ \$ \$	1,258.65 21,899.72 1,482.09 913.00 636.64 1,444.07 676.30	5 2,517.30 6 3,705.24 6 1,826.00 6 1,273.27 6 2,166.10 6 1,352.60 6 -	\$ 143,486.0 \$ - \$ 211,198.4 \$ 104,082.1 \$ 72,576.6 \$ 123,467.7 \$ 77,098.4 \$ -	7 57 \$ 57 \$ 11 57 \$ 7 57 \$ 6 57 \$ 2 57 \$ 0 57 \$	2,517.30 - 3,705.24 1,826.00 1,273.27 2,166.10			



Ī	NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
ent	Description			Units Total	ON	Hours per	Harrier Data	Linit On at	Subtotal	Linita	11-40-4	Materials	Manhours and	Total Materials
Ľ	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	rotal Materials
) :	S1-D10 Assembly and Erection of Suspension	Tower Type "A1 + 13.5" as per	Total struct	ure count:	63	EA			\$ 3,282,598.49	\$	52,104.74	-	\$ 52,104.74	\$
	S1-D10 Assembly and Erection of Suspension To		505573-4622-	43DD-0042		_		•	, , ,		,		,	
_	Total Tower Weight With Guys and Ext. (lb) =	18240 Total Tower Height(ft) =	168	Section Weight (lb) =	16861							_		
	Site Preparation	Site Preparation	each	63		2.00	\$ 675.12	\$ 1,350.24						
	Haul	Hauling	each	63		7.10	\$ 441.04							
_	Setup Blocks	Blocking Crew	each	63			\$ 281.84							
	Assemble Tower	Lattice Assembly	each	63		28.90	\$ 1,183.92	34,217.89						
	nstall Guy Strand	Guy Install	each	63		2.00	\$ 1,258.65	, , , , , , , , , , , , , , , , , , , ,						
_	Helicopter Set	HL Helicopter	each	63		0.00	\$ 21,899.72	<u> </u>	\$ -	63 \$				
	Crane Set	Y- Tower Erection	each	63			\$ 1,482.09	, -,	, , , , , ,					
<u> </u>	Plumb Tower	Tower Plumb	each	63		2.00	\$ 913.00							
_	naul Insulators and Travellers	Haul Travellers&Glass	each	63		2.00	\$ 636.64 \$					1		
-	Hang Travellers	Hang Travellers	each	63		1.50	\$ 1,444.07 \$					_		
-	Гie -in	Tie -in	each	63		2.00	\$ 676.30							
<u>.</u>			each	63			- 9			63 \$		_		
	rota	Cost = \$ 2.806	per pound	ļ				\$ 52,104. 74	\$ 3,282,598.49	\$	52,104.74			
١ :	S1-D11 Assembly and Erection of Suspension	Tower Type "A1 , 15" as nor	Total struct	uro count:	81	EA			\$ 4, 277,446.88	¢	52,807.99	¢	\$ 52,807.99	¢
	S1-D11 Assembly and Erection of Suspension S1-D11 Assembly and Erection of Suspension To				01	_ EA			4, 211,440.00	ą.	52,007.99		\$ 52,007.99	Þ
,	Total Tower Weight With Guys and Ext. (lb) =	18608 Total Tower Height(ft) =		Section Weight (lb) =	17179									
Г	Site Preparation	- ' '	each	81		2.00	\$ 675.12 3	1,350.24	\$ 109,369.84	81 \$	1,350.24	7		
_	Haul	Site Preparation	each	81		7.24	\$ 441.04					+		
_	Setup Blocks	Hauling Blocking Crew	each	81			\$ 281.84	, , , , , , , , , , , , , , , , , , , ,				-		
	Assemble Tower	Lattice Assembly	each	81		29.45		34,862.16		81 \$		-		
-	nstall Guy Strand	Guy Install	each	81		2.00		\$ 2,517.30			,	-		
	Helicopter Set	HL Helicopter	each	81			\$ 21,899.72		\$ -	81 \$		-		
_	Crane Set	Y- Tower Erection	each	81		2.50	\$ 1,482.09	_				†		
_	Plumb Tower	Tower Plumb	each	81		2.00	\$ 913.00					1		
<u> </u>	naul Insulators and Travellers	Haul Travellers&Glass	each	81		2.00	\$ 6 36.64 \$							
	Hang Travellers	Hang Travellers	each	81		1.50	\$ 1,444.07							
_	Γie -in	Tie -in	each	81			\$ 676.30							
-			each	81				\$ -		81 \$				
<u> -</u>	Tota	Cost = \$ 2.795	per pound						\$ 4,277,446.88		52,807.99			
				•				_		_		-		
	S1-D12 Assembly and Erection of Suspension				77	EA			\$ 4,108,707.73	\$	53,359.84	\$ -	\$ 53,359.84	\$
;	S1-D12 Assembly and Erection of Suspension To	wer Type "A1 + 16.5" as per dwg. 5	505573-4622-	43DD-0042				_						
_	Total Tower Weight With Guys and Ext. (lb) =	18907 Total Tower Height(ft) =		Section Weight (lb) =	17428							-		
-	Site Preparation	Site Preparation	each	77		2.00	\$ 675.12	,						
	Haul	Hauling	each	77		7.34	\$ 441.04]		
	Setup Blocks	Blocking Crew	each	77		2.00	\$ 281.84			77 \$]		
_	Assemble Tower	Lattice Assembly	each	77			\$ 1,183.92	,]		
-	nstall Guy Strand	Guy Install	each	77			\$ 1,258.65	-,	· · · · · · · · · · · · · · · · · · ·			ĺ		
	Helicopter Set	HL Helicopter	each	77		0.00	\$ 21,899.72			77 \$		Į.		
	Crane Set	Y- Tower Erection	each	77		2.50	\$ 1,482.09	·						
-	Plumb Tower	Tower Plumb	each	77		2.00	\$ 913.00					1		
_	naul Insulators and Travellers	Haul Travellers&Glass	each	77		2.00	\$ 636.64					ĺ		
F-	Hang Travellers	Hang Travellers	each	77		1.50	, , , ,		· · · · · · · · · · · · · · · · · · ·			Į.		
	Гie -in	Tie -in	each	77		2.00			·			4		
			each /	77			\$ -		\$ - \$ 4,108,707.73	77 \$		J		
L	<u> </u>	I Cost = \$ 2.787	per pound							\$				

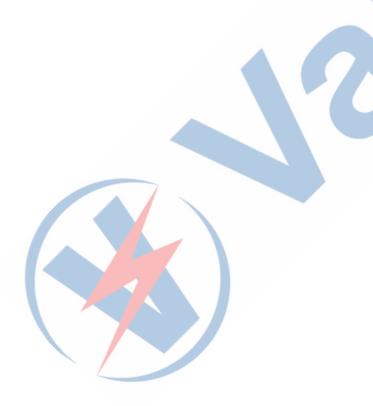


Payment	
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V::D13

t Units Hours per Unit Cost Subtotal Unit Unit Cost Materials Materials Total Materials		NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost					Total Unit Cost	
Description Total Crew No. unit Hourly Rate Unit Cost Subtotal Units Unit Cost Materials Materials Total Materials	t				Hours per						Mannours and	
		Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Units	Unit Coot	Materials	Materials	Total Materials

S1-D13 Assembly and Erection of Suspension T			ture count:	80	EA			\$ 4,313,326.30	\$	53,916.58	\$ - \$ 53,916.58 \$
S1-D13 Assembly and Erection of Suspension Tow	,										
Total Tower Weight With Guys and Ext. (lb) =	19209 Total Tower Height(ft) =	182	Section Weight (lb) =	17679							
Site Preparation	Site Preparation	each	80	2	2.00	\$ 675.12	\$ 1,350.24	\$ 108,019.59	80 \$	1,350.24	
Haul	Hauling	each	80	1	7.45	\$ 441.04	\$ 3,284.36	\$ 262,748.52	80 \$	3,284.36	
Setup Blocks	Blocking Crew	each	80	3	2.00	\$ 281.84	\$ 563.68	\$ 45,094.77	80 \$	563.68	
Assemble Tower	Lattice Assembly	each	80	4	30.30	\$ 1,183.92	\$ 35,877.78	\$ 2,870,222.09	80 \$	35,877.78	
Install Guy Strand	Guy Install	each	80	39	2.00	\$ 1,258.65	\$ 2,517.30	\$ 201,383.96	80 \$	2,517.30	
Helicopter Set	HL Helicopter	each	80	27	0.00	\$ 21,899.72	\$ -	\$ -	80 \$	-	
Crane Set	Y- Tower Erection	each	80	40	2.50	\$ 1,482.09	\$ 3,705.24	\$ 2 96,418.82	80 \$	3,705.24	
Plumb Tower	Tower Plumb	each	80	41	2.00	\$ 913.00	\$ 1,826.00	\$ 146,080.24	80 \$	1,826.00	
haul Insulators and Travellers	Haul Travellers&Glass	each	80	7	2.00	\$ 636.64	\$ 1,273.27	\$ 101,8 61.98	80 \$	1,273.27	
Hang Travellers	Hang Travellers	each	80	8	1.50	\$ 1,444.07	\$ 2,166.10	\$ 173,288.03	80 \$	2,166.10	
Tie -in	Tie -in	each	80	12	2.00	\$ 676.30	\$ 1,352.60	\$ 108,208.28	80 \$	1,352.60	
		each	80			\$ -	\$ -	\$ -	80 \$	-	
Total	Cost = \$ 2.779	per pound					\$ 53,916.58	\$ 4,313,326.30	\$	53,916.58	





	NALCOR 350 kV HVdc Line Construction Front 3	(Newfoundland)					Crew Cost						Total Unit Cost	
ent			ı	Units		Hours per							Manhours and	
l	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
_									Α.					
	Assembly and Erection of Suspension Tower	Type "A2"		Tower Settin	ng Ratio	0.00	Helicopter	100%	Crane					
1 :	S1-D14 Assembly and Erection of Suspension Tower Ty	pe "A2 + 0" as per dv	vg. Total struct	ure count:	0	EA	•		\$ -		\$ 66,367.13	\$ -	\$ 66,367.13	\$
;	S1-D14 Assembly and Erection of Suspension Tower Type	"A2 + 0" as per dwg. 5	05573-4622-43D	D-0044										
	Total Tower Weight With Guys and Ext. (lb) = 22259	Total Tower Height(ft)	= 107	Section Weight (lb) =	20779									
[Site Preparation	Site Preparation	each	0	2		\$ 675.12							
	Haul	Hauling	each	0		12.75	\$ 441.04							
	Setup Blocks	Blocking Crew	each	0	•	2.00	,	\$ 563.68						
	Assemble Tower	Lattice Assembly	each	0		35.62	\$ 1,183.92	\$ 42,168.36		- C				
	Install Guy Strand	Guy Install	each	0	00	3.00	\$ 1,258.65	\$ 3,775.95						
	Helicopter Set	HL Helicopter	each	0		0.00			\$ -					
_	Crane Set	Y- Tower Erection	each	0	10	4.00	\$ 1,482.09			-				
<u> </u>	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	, , , , , , ,		0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64					4		
_	Hang Travellers	Hang Travellers	each	0			\$ 1,444.07	, ,				4		
-	Tie -in	Tie -in	each	0		2.50	\$ 676.30					_		
L	Total Cook -	ф <u>О</u>	each	0			\$ -	\$ - CC 267 42						
	Total Cost =	\$ 2.9	947 per pound	l				66 ,367.13	\$ -		\$ -			
	S1-D15 Assembly and Erection of Suspension Tower Ty	no "A2 · 1 F" oo nor	Total struct	uro count:	0	EA			\$ -		\$ 68,169.20	¢	\$ 68,169.20	¢
5	S1-D15 Assembly and Erection of Suspension Tower Type	pe Az+I.5 asper "^2+15" asperdwo	505573 1622 1			_ EA			3 -		φ 00,109.20	-	Φ 00,109.20	Φ
,	Total Tower Weight With Guys and Ext. (Ib) = 23188	Total Tower Height(ft)		Section Weight (lb) =	21592									
Г	Site Preparation	Site Preparation	each	Section Weight (ib) =	2 1392	2.00	\$ 675.12	\$ 1,350.24	\$ -	0	\$ -	٦		
_	Haul	Site Preparation Hauling	each	0	1	13.10	\$ 441.04				\$ -	=		
	Setup Blocks	Blocking Crew	each	0	3	2.00		\$ 563.68				╡		
	Assemble Tower	Lattice Assembly	each	0		37.01	\$ 1,183.92				\$ -	╡		
_	Install Guy Strand	Guy Install	each	0		3.00	\$ 1,258.65					1		
	Helicopter Set	HL Helicopter	each	0		0.00			\$ -			-		
	Crane Set	Y- Tower Erection	each	0	40	4.00		\$ 5,928.38						
	Plumb Tower	Tower Plumb	each	0	41	2.00		\$ 1,826.00		-		1		
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64					1		
Ī	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444.07					1		
F	Tie -in	Tie -in	each	0	12	2.50	\$ 676.30	\$ 1,690.75	\$ -	-		1		
			each	0			\$ -	\$ -	\$ -	0	\$ -	1		
_	Total Cost =	\$ 2.9	920 per pound					\$ 68,169.20	\$ -		\$ -			
			•	•								=		
	S1-D16 Assembly and Erection of Suspension Tower Ty				0	EA			\$ -		\$ 69,473.14	-	\$ 69,473.14	\$
;	S1-D16 Assembly and Erection of Suspension Tower Type			DD-0044										
-	Total Tower Weight With Guys and Ext. (Ib) = 23893	Total Tower Height(ft)		Section Weight (lb) =	22181				_			7		
_	Site Preparation	Site Preparation	each	0	_	2.00		\$ 1,350.24				4		
_	Haul	Hauling	each	0		13.34	\$ 441.04	,				4		
	Setup Blocks	Blocking Crew	each	0		2.00	\$ 281.84					4		
-	Assemble Tower	Lattice Assembly	each	0	4	38.02	\$ 1,183.92	\$ 45,013.88				4		
_	Install Guy Strand	Guy Install	each	0	- 00	3.00	,	\$ 3,775.95				4		
<u> </u>	Helicopter Set	HL Helicopter	each	0		0.00	, , , , , , ,	\$ - \$ 5000.00	*		•	4		
-	Crane Set	Y- Tower Erection	each	0	40	4.00	7 .,	\$ 5,928.38				4		
-	Plumb Tower	Tower Plumb	each	0	41	2.00	7 0.00.00	\$ 1,826.00				4		
	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$ 636.64					4		
_	Hang Travellers	Hang Travellers	each	0		1.50	,	\$ 2,166.10	•			4		
1				0	12	2.50	\$ 676.30	\$ 1,690.75	-			_		
1	Tie -in	Tie -in	_				¢	¢	¢	^	ďr			
Ī	Tie -in Total Cost =		each 901 per pound	0			*	\$ - \$ 69,473.14			\$ - \$ -			



	NALCOR 350 kV HVdc Line Construction	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
nt	D 1.0			Units		Hours per	–		0.1				Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S4 D47 Assambly and Exaction of Suppossion	n Tower Type "A2 : 45" co nor	Total strue	turo count:	0	EA			\$ -		\$ 71,280.10	¢	\$ 71,280.10	l ¢
	S1-D17 Assembly and Erection of Suspension S1-D17 Assembly and Erection of Suspension T			ture count:		_ EA			-		7 1,200.10	-	Φ 11,200.10	Þ
	Total Tower Weight With Guys and Ext. (lb) =	24825 Total Tower Height(ft) =		Section Weight (lb) =	22997									
	Site Preparation	Site Preparation	each	Oction Weight (ib) =		2.00	\$ 675.12	\$ 1,350.24	-	0	\$ -	1		
	Haul	Hauling	each	0		13.69	\$ 441.04			0	\$ -	1		
	Setup Blocks	Blocking Crew	each	0	·	2.00	\$ 281.84			0				
	Assemble Tower	Lattice Assembly	each	0		39.42		\$ 46,669.30		0				
	Install Guy Strand	Guy Install	each	0	39	3.00	<u> </u>	\$ 3,775.95	·	0				
	Helicopter Set	HL Helicopter	each	0	27	0.00		\$ -	\$ -	0	\$ -			
	Crane Set	Y- Tower Erection	each	0		4.00	\$ 1,482.09	\$ 5,928.38	\$ -	0				
	Plumb Tower	Tower Plumb	each	0		2.00	\$ 913.00	\$ 1,826.00		0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64			0				
	Hang Travellers	Hang Travellers	each	C	8	1.50	\$ 1,444.07		\$ -	0	\$ -	1		
	Tie -in	Tie -in	each	0		2.50	\$ 676.30			0		1		
			each	0				\$ -			\$ -	1		
	Tot	tal Cost = \$ 2.8	77 per pound					\$ 71,280.10	\$ -		\$ -			
										_		-		
	S1-D18 Assembly and Erection of Suspension	n Tower Type "A2 + 6" as per dy	vg. Total struc	ture count:	0	EA			\$ -		\$ 71,529.16	\$ -	\$ 71,529.16	\$
	S1-D18 Assembly and Erection of Suspension T					_								
	Total Tower Weight With Guys and Ext. (lb) =	25053 Total Tower Height(ft) =	126	Section Weight (lb) =	23109									
	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.1 2	\$ 1,350.24	\$ -	0	\$ -			
	Haul	Hauling	each	0	1	13.73	\$ 441.04	\$ 6,057.30	\$ -	0				
	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 2 81.84			0	\$ -			
	Assemble Tower	Lattice Assembly	each	0	4	39.61	\$ 1,183.92	\$ 46,897.47	\$ -	0	\$ -			
	Install Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65	\$ 3,775.95	\$ -	0				
	Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72	\$ -	\$ -	0	\$ -			
	Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09	\$ 5,928.38	\$ -	0	\$ -			
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00			0				
			each	0	7	0.00	c 000.04	\$ 1,273.27	\$ -	0	\$ -			
	haul Insulators and Travellers	Haul Travellers&Glass	Cacii		- 1	2.00	\$ 6 36.64							
	haul Insulators and Travellers Hang Travellers	Haul Travellers&Glass Hang Travellers	each	0		1.50		\$ 2,166.10	\$ -	0	\$ -			
				_	8			\$ 2,166.10	\$ -		\$ -			
	Hang Travellers	Hang Travellers Tie -in	each each each	0 0	8 12	1.50	\$ 1,444.07 \$ 676.30	\$ 2,166.10 \$ 1,690.75 \$ -	\$ - \$ - \$ -	0	\$ - \$ -			
	Hang Travellers Tie -in	Hang Travellers Tie -in	each each	0 0	8 12	1.50	\$ 1,444.07 \$ 676.30	\$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ -	0 0	\$ - \$ -			
	Hang Travellers Tie -in Tot	Hang Travellers Tile -in tal Cost = \$ 2.8	each each each 73 per pound	0 0	8 12	1.50 2.50	\$ 1,444.07 \$ 676.30	\$ 2,166.10 \$ 1,690.75 \$ -	\$ - \$ - \$ - \$ -	0 0	\$ - \$ - \$ - \$ -			_
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension	Hang Travellers Tie -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per	each each each 73 per pound	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 12	1.50	\$ 1,444.07 \$ 676.30	\$ 2,166.10 \$ 1,690.75 \$ -	\$ - \$ - \$ -	0 0	\$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T	Hang Travellers Tie -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg.	each each each 73 per pound Total struc 505573-4622-4	0 0 0 0 0 0 0 0 0 0 0 0 0	8 12 0	1.50 2.50	\$ 1,444.07 \$ 676.30	\$ 2,166.10 \$ 1,690.75 \$ -	\$ - \$ - \$ -	0 0	\$ - \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) =	Hang Travellers Tie -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per	each each each 73 per pound Total struc 505573-4622-4 131	ture count: 13DD-0044 Section Weight (lb) =	8 12 0 23949	1.50 2.50	\$ 1,444.07 \$ 676.30 \$	\$ 2,166.10 \$ 1,690.75 \$ - \$ 71,529.16	\$ - \$ - \$ - \$ -	0 0	\$ - \$ - \$ - \$ - \$ -	 - \$ -	\$ 73,389.84	 \$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation	Hang Travellers Tie -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg.	each each each 73 per pound Total struc 505573-4622-4 131 each	ture count: 13DD-0044 Section Weight (lb) =	0 23949 2	1.50 2.50 EA	\$ 1,444.07 \$ 676.30 \$ -	\$ 2,166.10 \$ 1,690.75 \$ - \$ 71,529.16	\$ - \$ - \$ - \$ -	0 0	\$ - \$ - \$ - \$ - \$ 73,389.84	 \$ -	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) =	each each each 73 per pound Total struc 505573-4622-4 131 each each	ture count: 13DD-0044 Section Weight (lb) =	0 23949 2	1.50 2.50 EA	\$ 1,444.07 \$ 676.30 \$	\$ 2,166.10 \$ 1,690.75 \$ - \$ 71,529.16 \$ 1,350.24 \$ 6,213.35	\$ - \$ - \$ - \$ - \$ -	0 0	\$ - \$ - \$ - \$ - \$ 73,389.84 \$ - \$ -	 \$ -	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	Hang Travellers Tie -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) =	each each each 73 per pound Total struc 505573-4622-4 131 each each each	ture count: 13DD-0044 Section Weight (lb) =	0 23949 2 1 3	2.00 14.09 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84	\$ 2,166.10 \$ 1,690.75 \$ - \$ 71,529.16 \$ 1,350.24 \$ 6,213.35 \$ 563.68	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0	\$ - \$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ -	 - \$ -	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower	Hang Travellers Tile -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling	each each each 73 per pound Total struc 505573-4622-4 131 each each each each	ture count: 13DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4	2.00 14.09 2.00 41.05	\$ 1,444.07 \$ 676.30 \$	\$ 2,166.10 \$ 1,690.75 \$ \$ 71,529.16 \$ 1,350.24 \$ 6,213.35 \$ 563.68 \$ 48,602.11	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each 73 per pound Total struc 505573-4622-4 131 each each each each each	ture count: 13DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39	2.00 14.09 2.00 41.05 3.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 444.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 2,166.10 \$ 1,690.75 \$ - \$ 71,529.16 \$ 6,213.35 \$ 663.68 \$ 48,602.11 \$ 3,775.95	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each 73 per pound Total struc 505573-4622-4 131 each each each each each each	ture count: ### 3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39 27	2.00 14.09 2.00 41.05 3.00 0.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 2,166.10 \$ 1,690.75 \$ - \$ 71,529.16 \$ 1,350.24 \$ 6,213.35 \$ 563.68 \$ 48,602.11 \$ 3,775.95 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ -	- - \$ -	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each 73 per pound Total struc 505573-4622-4 131 each each each each each each each each	ture count: #3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39 27 40	2.00 14.09 2.00 41.05 3.00 0.00 4.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 2,166.10 \$ 1,690.75 \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each 73 per pound Total struc 505573-4622-4 131 each each each each each each each each	ture count: B3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39 27 40 41	2.50 2.50 EA 2.00 14.09 2.00 41.05 3.00 0.00 4.00 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 2,166.10 \$ 1,690.75 \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each 73 per pound Total struc 505573-4622-4 131 each each each each each each each each	ture count: 3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 1 3 4 39 27 40 41 7	2.00 14.09 2.00 41.05 3.00 0.00 4.00 2.00 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 2,166.10 \$ 1,690.75 \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Hang Travellers Tie -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Haulling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Frection Tower Flumb	each each 73 per pound Total struc 505573-4622-4 131 each each each each each each each each	ture count: 3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39 27 40 41 7	2.00 14.09 2.00 41.05 3.00 0.00 4.00 2.00 2.00 1.50	\$ 1,444.07 \$ 676.30 \$	\$ 2,166.10 \$ 1,690.75 \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Hang Travellers Tile -in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Haulling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Pitumb Haul Travellers & Glass	each each 73 per pound Total struc 505573-4622-4 131 each each each each each each each each	ture count: 3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39 27 40 41 7 8	2.00 14.09 2.00 41.05 3.00 0.00 4.00 2.00 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 2,166.10 \$ 1,690.75 \$ 71,529.16 \$ 1,350.24 \$ 6,213.35 \$ 563.68 \$ 48,602.11 \$ 3,775.95 \$ \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- -	\$ 73,389.84	\$
	Hang Travellers Tie -in Tot S1-D19 Assembly and Erection of Suspension S1-D19 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Hang Travellers Tie-in tal Cost = \$ 2.8 n Tower Type "A2 + 7.5" as per Tower Type "A2 + 7.5" as per dwg. 26009 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie-in	each each 73 per pound Total struc 505573-4622-4 131 each each each each each each each each	ture count: 3DD-0044 Section Weight (lb) =	8 12 0 23949 2 1 3 4 39 27 40 41 7 8	2.00 14.09 2.00 41.05 3.00 0.00 4.00 2.00 2.00 1.50	\$ 1,444.07 \$ 676.30 \$	\$ 2,166.10 \$ 1,690.75 \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ 73,389.84 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		\$ 73,389.84	\$



	NALCOR 350 kV HVdc Line Construction	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
	le			Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	O4 DO0 Assembly and English of Occupanies		Total atmis		•				•		¢ 74.002.70	•	¢ 74.000.70	•
	S1-D20 Assembly and Erection of Suspension S1-D20 Assembly and Erection of Suspension To	n Tower Type "A2 + 9" as per dvg	vg. Total Struc	ture count:	0	EA			-		\$ 74,693.78	-	\$ 74,693.78	\$
	Total Tower Weight With Guys and Ext. (lb) =	26713 Total Tower Height(ft) =		Section Weight (lb) =	24538									
ı	Site Preparation	Site Preparation	each	Section Weight (ib) =		2.00	\$ 675.12	\$ 1,350.24	S -	0	-	٦		
	Haul	Hauling	each	0		14.34	\$ 441.04			0	\$ -	╡		
	Setup Blocks	Blocking Crew	each	0	-	2.00	\$ 281.84				\$ -	1		
	Assemble Tower	Lattice Assembly	each	0		42.06	<u>'</u>	\$ 49,796.69			\$ -	1		
	Install Guy Strand	Guy Install	each	0	39	3.00	·	\$ 3,775.95			\$ -	1		
	Helicopter Set	HL Helicopter	each	0		0.00		\$ -	\$ -		\$ -	1		
	Crane Set	Y- Tower Erection	each	0		4.00	\$ 1,482.09	\$ 5,928.38	\$ -		\$ -	1		
	Plumb Tower	Tower Plumb	each	0		2.00	\$ 913.00	\$ 1,826.00			\$ -	1		
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	\$ 1,273.27	\$ -			1		
	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444.07	\$ 2,166.10	\$ -	0	\$ -			
	Tie -in	Tie -in	each	0	12	2.50	\$ 676.30			0	\$ -			
			each	0			\$ -	\$ -		0	\$ -			
	Tot	tal Cost = \$ 2.8	35 per pound					\$ 74,693.78	\$ -		\$ -			
												_		_
	S1-D21 Assembly and Erection of Suspension	n Tower Type "A2 + 10.5" as per	Total struc		0	EA			\$ -		\$ 76,500.74	-	\$ 76,500.74	\$
	S1-D21 Assembly and Erection of Suspension To	ower Type "A2 + 10.5" as per dwo		-43DD-0044										
	Total Tower Weight With Guys and Ext. (lb) =	27645 Total Tower Height(ft) =	141	Section Weight (lb) =	25353							_		
	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.1 2				\$ -			
	Haul	Hauling	each	0	1	14.68	\$ 441.04				\$ -			
	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 2 81.84				\$ -			
	Assemble Tower	Lattice Assembly	each	0		43.46	\$ 1,183.92	\$ 51,452.10			\$ -			
	Install Guy Strand	Guy Install	each	0		3.00	\$ 1,258.65		\$ -		\$ -			
	Helicopter Set	HL Helicopter	each	0		0.00	\$ 21,899.72				\$ -			
	Crane Set	Y- Tower Erection	each	0		4.00	\$ 1,482.09				\$ -			
	Plumb Tower	Tower Plumb	each	0		2.00	\$ 913.00				\$ -			
	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$ 6 36.64				\$ -			
	Hang Travellers	Hang Travellers	each	0		1.50	\$ 1,444.07	\$ 2,166.10			\$ -			
	Tie -in	Tie -in	each	0		2.50	\$ 676.30		\$ -		\$ -			
			each	0			-	\$ -	\$ -	0	\$ -			
	Tot	tal Cost = \$ 2.8	15 per pound					\$ 76,500.74	\$ -		\$ -			
	S1-D22 Assembly and Erection of Suspension		Total struc		0	EA			-		\$ 76,696.08	-	\$ 76,696.08	\$
	S1-D22 Assembly and Erection of Suspension To				05444									
	Total Tower Weight With Guys and Ext. (lb) =	27849 Total Tower Height(ft) =		Section Weight (lb) =		1 0.00	075.40	4.050.04	I &	1 0	I &	٦		
	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12				\$ -	4		
	Haul	Hauling	each	0		14.72	\$ 441.04				\$ -	4		
	Setup Blocks	Blocking Crew	each	0		2.00		\$ 563.68			\$ -	4		
	Assemble Tower	Lattice Assembly	each	0		43.61	\$ 1,183.92	\$ 51,631.07			\$ -	4		
	Install Guy Strand	Guy Install	each	0		3.00	\$ 1,258.65	\$ 3,775.95				4		
	Helicopter Set	HL Helicopter	each	0		0.00	\$ 21,899.72	\$ - 6 5000.00	\$ -		\$ -	-		
	Crane Set Plumb Tower	Y- Tower Erection	each	0		4.00	\$ 1,482.09				\$ -	4		
		Tower Plumb	each	0		2.00	\$ 913.00				\$ -	4		
				0	7	2.00	\$ 636.64				\$ - \$ -	4		
	haul Insulators and Travellers	Haul Travellers&Glass	each		0	1.50	Φ 4 4 4 4 O 7							
	haul Insulators and Travellers Hang Travellers	Haul Travellers&Glass Hang Travellers	each	0		1.50	\$ 1,444.07					4		
	haul Insulators and Travellers	Haul Travellers&Glass	each each	0	12	1.50 2.50	\$ 676.30	\$ 1,690.75	\$ -	0	\$ -	1		
	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers&Gless Hang Travellers Tie -in	each	000000000000000000000000000000000000000	12		·		\$ - \$ -	0				



	NALCOR 350 kV HVdc Line Construction	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
ent				Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
					_				•			•	4	
	S1-D23 Assembly and Erection of Suspension	n Tower Type "A2 + 13.5" as per	Total struct		0	EA			\$ -		\$ 78,556.76	\$ -	\$ 78,556.76	\$
	S1-D23 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) =	10wer Type A2 + 13.5 as per dwg 28805 Total Tower Height(ft) =		Section Weight (lb) =	26281									
	Site Preparation	Site Preparation	each	O Section Weight (Ib) =		2.00	\$ 675.12	\$ 1,350.24	\$ -	0	\$ -	1		
	Haul	Site Preparation Hauling	each	0		15.07	\$ 441.04			0	\$ -			
	Setup Blocks	Blocking Crew	each	0	·	2.00	\$ 281.84	·		0				
	Assemble Tower	Lattice Assembly	each	0		45.05		\$ 53,335.70		0				
	Install Guy Strand	Guy Install	each	0		3.00	· , , , , , , , , , , , , , , , , , , ,	\$ 3,775.95		0				
	Helicopter Set	HL Helicopter	each	0	27	0.00		\$ -	\$ -	0	\$ -			
	Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09	\$ 5,928.38	\$ -	0				
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00	\$ -	0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	\$ 1,273.27	\$ -	0		1		
	Hang Travellers	Hang Travellers	each	0	8	1.50	\$ 1,444.07	\$ 2,166.10	\$ -	0	\$ -			
	Tie -in	Tie -in	each	0	12	2.50	\$ 676.30	\$ 1,690.75	\$ -	0	\$ -			
			each	0			\$ -	\$ -		0	\$ -			
	Tot	tal Cost = \$ 2.79	4 per pound					\$ 78,556.76	\$ -		\$ -			
						_								
	S1-D24 Assembly and Erection of Suspension		Total struct		0	EA			\$ -		\$ 81,899.53	\$ -	\$ 81,899.53	\$
	S1-D24 Assembly and Erection of Suspension T													
	Total Tower Weight With Guys and Ext. (lb) =	29761 Total Tower Height(ft) =		Section Weight (lb) =	27121							1		
	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12			0				
	Haul	Hauling	each	0		15.42	\$ 441.04			0				
	Setup Blocks	Blocking Crew	each	0		2.00	\$ 281.84			0				
	Assemble Tower	Lattice Assembly	each	0		46.49		\$ 55,040.33		0				
	I t - II O Ot I		1-	^	00	0.00	A 050 05	Φ 0 77F 0F			Φ.			
	Install Guy Strand	Guy Install	each	0		3.00	\$ 1,258.65			0				
	Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72	\$ -	\$ -	0	\$ -			
	Helicopter Set Crane Set	HL Helicopter Y- Tower Erection	each each	0	27 40	0.00 5.00	\$ 21,899.72 \$ 1,482.09	\$ - \$ 7,410.47	\$ -	0	\$ - \$ -			
	Helicopter Set Crane Set Plumb Tower	HL Helicopter Y-Tower Erection Tower Plumb	each each each	0 0	27 40 41	0.00 5.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ - \$ 7,410.47 \$ 1,826.00	\$ - \$ - \$	0 0	\$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each	0 0 0	27 40 41 7	0.00 5.00 2.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ -	0 0 0	\$ - \$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each	0 0 0 0	27 40 41 7 8	0.00 5.00 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each	0 0 0 0 0	27 40 41 7 8 12	0.00 5.00 2.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each each each each each each each	0 0 0 0	27 40 41 7 8 12	0.00 5.00 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each each each each each	0 0 0 0 0	27 40 41 7 8 12	0.00 5.00 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Class Hang Travellers Tie -in tal Cost = \$ 2.83	each each each each each each each each	0 0 0 0 0 0 0	27 40 41 7 8 12	0.00 5.00 2.00 2.00 1.50 2.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	 \$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in ttal Cost = \$ 2.83 n Tower Type "A2 + 16.5" as per	each each each each each each each each	0 0 0 0 0 0 0	27 40 41 7 8 12	0.00 5.00 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in ttal Cost = \$ 2.83 n Tower Type "A2 + 16.5" as per	each each each each each each each each	0 0 0 0 0 0 0 0	27 40 41 7 8 12	0.00 5.00 2.00 2.00 1.50 2.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in tal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg	each each each each each each each each	0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0	0.00 5.00 2.00 2.00 1.50 2.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 - \$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) =	HL Helicopter	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0	0.00 5.00 2.00 2.00 1.50 2.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 - \$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in ttal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) =	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2	0.00 5.00 2.00 2.00 1.50 2.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
i	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in Intal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3	0.00 5.00 2.00 2.00 1.50 2.50 EA	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53 \$ 1,350.24 \$ 6,912.08	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in Intal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39	0.00 5.00 2.00 1.50 2.50 EA	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53 \$ 1,350.24 \$ 6,912.08 \$ 563.68	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 \$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in Intal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Haufing Blocking Crew Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27	2.00 15.67 2.00 47.50 3.00 0.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 81,899.53 \$ 81,899.53 \$ 6,912.08 \$ 6,912.08 \$ 563.68 \$ 56,234.91 \$ 3,775.95 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	HL Helicopter Y- Tower Erection Tower Plumb Hauf Travellers & Class Hang Travellers Tie -in tal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27	0.00 5.00 2.00 1.50 2.50 EA 2.00 15.67 2.00 47.50 3.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 81,899.53 \$ 81,899.53 \$ 6,912.08 \$ 6,912.08 \$ 563.68 \$ 56,234.91 \$ 3,775.95 \$ \$ 7,410.47	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers &Class Hang Travellers Tie -in tal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27 40	2.00 1.50 2.00 2.50 2.50 EA 2.00 47.50 3.00 0.00 5.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 81,899.53 \$ 81,899.53 \$ 6,912.08 \$ 6,912.08 \$ 56,234.91 \$ 3,775.95 \$ \$ 7,410.47 \$ 1,826.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Class Hang Travellers Tie -in tal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27 40 41	2.00 1.50 2.00 2.50 2.50 EA 2.00 47.50 3.00 0.00 5.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ 81,899.53 \$ 81,899.53 \$ 6,912.08 \$ 6,912.08 \$ 56,234.91 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in tal Cost = \$ 2.83 Tower Type "A2 + 16.5" as per Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27 40 41 7 8	2.00 1.50 2.00 2.50 2.50 EA 2.00 47.50 3.00 0.00 5.00 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53 \$ 1,350.24 \$ 6,912.08 \$ 563.68 \$ 56,234.91 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in ttal Cost = \$ 2.83 n Tower Type "A2 + 16.5" as per fower Type "A2 + 16.5" as per dwg 30466 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27 40 41 7 8	2.00 1.50 2.50 2.50 EA 2.00 1.567 2.00 47.50 3.00 0.00 5.00 2.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53 \$ 1,350.24 \$ 6,912.08 \$ 563.68 \$ 56,234.91 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$
	Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D25 Assembly and Erection of Suspension S1-D25 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in Intal Cost = \$ 2.83 In Tower Type "A2 + 16.5" as per dwg Tower Type "A2 + 16.5" as per dwg 30466 Total Tower Heightl(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Plumb Haul Travellers Glass Hang Travellers Tie -in	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 40 41 7 8 12 0 27710 2 1 3 4 39 27 40 41 7 8	2.00 1.50 2.00 2.50 2.50 EA 2.00 47.50 3.00 0.00 5.00 2.00 2.00 1.50	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10 \$ 1,690.75 \$ - \$ 81,899.53 \$ 1,350.24 \$ 6,912.08 \$ 563.68 \$ 56,234.91 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 2,166.10	\$ - \$ - \$ - \$ \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 83,203.47	\$



escription I-D26 Assembly and Erection of Suspension I-D26 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks esemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	ower Type "A2 + 18" as per dwg. 5t 31170 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	166 Section Weight (lb) = each each each each each cach each	1 3 4 39 27 40 41	15.92 2.00 48.51 3.00 0.00 5.00 2.00	## Hourly Rate \$ 675.12	Unit Cost 1,350.24 \$ 7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$	Subtotal	Units \$	Unit Cost 84,507.41	Materials -	Manhours and Materials \$ 84,507.41	Total Materials
I-D26 Assembly and Erection of Suspension I-D26 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	ower Type "A2 + 18" as per dwg. 5t 31170 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	Total structure count: 05573-4622-43DD-0044 166 Section Weight (lb) = each each each (ceach (28299 2 1 1 3 4 4 39 27 40 41 7	2.00 15.92 2.00 48.51 3.00 0.00 5.00 2.00	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	1,350.24 \$ 7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$ 0 \$ 0 \$ 0 \$	84,507.41		l	
1-D26 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set tumb Tower aul Insulators and Travellers ang Travellers e -in	ower Type "A2 + 18" as per dwg. 5t 31170 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	05573-4622-43DD-0044 166 Section Weight (lb) = each each each each each each each each	28299 2 1 3 4 39 27 40 41 7	2.00 15.92 2.00 48.51 3.00 0.00 5.00 2.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	1,350.24 \$ 7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$ 0 \$ 0 \$	- - - -	\$ -	\$ 84,507.41	\$
1-D26 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set tumb Tower aul Insulators and Travellers ang Travellers e -in	ower Type "A2 + 18" as per dwg. 5t 31170 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	05573-4622-43DD-0044 166 Section Weight (lb) = each each each each each each each each	28299 2 1 3 4 39 27 40 41 7	2.00 15.92 2.00 48.51 3.00 0.00 5.00 2.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	1,350.24 \$ 7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$ 0 \$ 0 \$	- - - -	-	\$ 84,507.41	, \$
Total Tower Weight With Guys and Ext. (lb) = te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	31170 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie-in	166 Section Weight (lb) = each each each each each each each each	2 1 3 4 39 27 40 41 7	15.92 2.00 48.51 3.00 0.00 5.00 2.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$ 0 \$ 0 \$	- - -			
te Preparation aul etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Frection Tower Plumb Haul Travellers & Glass Hang Travellers Tio -in	each (each (each (each (each (each (each (each (each (each (each (2 1 3 4 39 27 40 41 7	15.92 2.00 48.51 3.00 0.00 5.00 2.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$ 0 \$ 0 \$	- - -			
aul etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Hang Travellers	each (each (each (each (each (each (each (each (each (1 3 4 39 27 40 41	15.92 2.00 48.51 3.00 0.00 5.00 2.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	7,021.43 \$ 563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$ 0 \$ 0 \$	- - -			
etup Blocks ssemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Ferction Tower Plumb Haul Travellers Hang Travellers	each (each (each (each (each (each (each (each (3 4 39 27 40 41	2.00 48.51 3.00 0.00 5.00 2.00	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	563.68 \$ 57,429.50 \$ 3,775.95 \$ - \$		0 \$	-			
ssemble Tower stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each (each (each (each (each (each (each (4 39 27 40 41 7	48.51 3.00 0.00 5.00 2.00	\$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	57,429.50 \$ 3,775.95 \$ - \$		0 \$	-			
stall Guy Strand elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each (each (each (each (each (each (39 27 40 41 7	3.00 0.00 5.00 2.00	\$ 1,258.65 \$ \$ 21,899.72 \$ \$ 1,482.09 \$	3,775.95 \$						
elicopter Set rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each (ea	27 40 41 7	0.00 5.00 2.00	\$ 21,899.72 \$ \$ 1,482.09 \$	- \$			- 1			
rane Set umb Tower aul Insulators and Travellers ang Travellers e -in	Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each (ea	40 41 7	5.00 2.00	\$ 1,482.09 \$	Ψ		0 \$	_			
umb Tower aul Insulators and Travellers ang Travellers e -in	Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each (each (each (41 7	2.00		7,410.47 \$	-	0 \$				
aul Insulators and Travellers ang Travellers e -in	Haul Travellers&Glass Hang Travellers Tie -in	each (7			1,826.00 \$	-	0 \$	-			
ang Travellers e -in	Hang Travellers Tie -in	each (2.00	\$ 636.64 \$	1,273.27 \$	-	0 \$	_			
e -in	Tie -in		8	1.50	\$ 1,444.07 \$	2,166.10 \$		0 \$	_			
				2.50	\$ 676.30 \$	1,690.75 \$		0 \$	_			
Tot		each	12	2.00	\$ - \$	- \$	-	0 \$	_			
	al Cost = \$ 2.805	5 per pound			\$	84,507.41 \$	_	\$	-			
	a. 000t	o po. pouna			4	0 1,007 1.11 <u> </u>		<u> </u>				
I-D27 Assembly and Erection of Suspension	Tower Type "A2 + 19.5" as per	Total structure count:	0	EA		\$		\$	85.205.78	\$ -	\$ 85.205.78	\$
									00,200110	•	*	•
· · · · · · · · · · · · · · · · · · ·			28614									
	3 ()			2.00	\$ 675.12 \$	1.350.24 \$	-	0 \$	_			
aul	· ·						-	0 \$	_			
etup Blocks	<u>*</u>		3				_		-			
ssemble Tower	·	each (4				_	0 \$	-			
	· · · · · · · · · · · · · · · · · · ·	each (39				_	0 \$	-			
	HL Helicopter			0.00	\$ 21,899.72 \$	- \$	-	0 \$	-			
rane Set	Y- Tower Erection	each (40	5.00	\$ 1,482.09 \$	7,410.47 \$	-	0 \$	=			
umb Tower	Tower Plumb	each (41	2.00	\$ 913.00 \$	1,826.00 \$	-	0 \$	-			
aul Insulators and Travellers	Haul Travellers&Glass	each (7	2.00	\$ 636.64 \$	1,273.27 \$	-	0 \$	-			
ang Travellers	Hang Travellers	each (8	1.50	\$ 1,444.07 \$	2,166.10 \$	-	0 \$	-			
e -in	Tie -in	each (12	2.50	\$ 676.30 \$	1,690.75 \$	-	0 \$	_			
		each (\$ - \$	- \$	-	0 \$	_			
Tot	al Cost = \$ 2.798	8 per pound			\$	85,205.78 \$	-	\$	-			
Assembly and Erection of Suspension	n Tower Type "A3"	Tower Setti	ng Ratio	0.00	Helicopter	100% Cra	ne					
			110	EA		\$	5,508,287.84	\$	50,075.34	\$ -	\$ 50,075.34	\$
				_					_			
Total Tower Weight With Guys and Ext. (lb) =	16808 Total Tower Height(ft) =		15745									
te Preparation	Site Preparation			2.00	\$ 675.12 \$	1,350.24 \$		110 \$	1,350.24			
aul	Hauling	each 110	1	6.63	\$ 441.04 \$	2,925.16 \$		110 \$	2,925.16			
etup Blocks	Blocking Crew	each 110	3	2.00	\$ 281.84 \$	563.68 \$		110 \$	563.68			
ssemble Tower	Lattice Assembly	each 110	4	26.99	\$ 1,183.92 \$	31,953.99 \$		110 \$	31,953.99			
stall Guy Strand	Guy Install			2.00	\$ 1,258.65 \$	2,517.30 \$	276,902.95	110 \$	2,517.30			
elicopter Set	HL Helicopter	each 110	27	0.00	\$ 21,899.72 \$	- \$	-	110 \$	-			
ane Set	Y- Tower Erection			3.50	\$ 1,482.09 \$	5,187.33 \$			5,187.33			
umb Tower	Tower Plumb	each 110	41	2.00	\$ 913.00 \$	1,826.00 \$	200,860.34	110 \$	1,826.00			
aul Insulators and Travellers	Haul Travellers&Glass			1.50	\$ 636.64 \$	954.96 \$	105,045.17	110 \$	954.96			
ang Travellers	Hang Travellers	each 110	8	1.00	\$ 1,444.07 \$	1,444.07 \$	158,847.36	110 \$	1,444.07			
e -in	Tie -in	each 110	12	2.00	\$ 676.30 \$	1,352.60 \$	148,786.39	110 \$	1,352.60			
		each 110			\$ - \$	- \$	-	110 \$	-			
Tot	al Cost = \$ 2.942	2 per pound			\$	50,075.34 \$	5,508,287.84	\$	50,075.34			
1 te a e e e e e e e e e e e e e e e e e	-D27 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = the Preparation and the Blocks the Blocks the Stall Guy Strand elicopter Set ane Set the Tower and Travellers	Total Tower Weight With Guys and Ext. (Ib) = 32326 Total Tower Height(ft) = te Preparation site Preparation stup Blocks Blocking Crew stall Guy Strand Site Preparation stup Blocks Blocking Crew stall Guy Strand Site Preparation Authorized Stall Guy Strand Site Preparation Blocking Crew stall Guy Strand Site Preparation Authorized Stall Guy Strand Site Preparation Hull travellers Haut Travellers and Travellers Haut Travellers Haut Travellers Be -in Total Cost = \$ 2.798 Sesembly and Erection of Suspension Tower Type "A3" -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg -D28 Assembly and Erection of Suspensio	-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-43DD-0044 Total Tower Weight With Guys and Ext. (lb) = 32326 Total Tower Height(ft) = 171 Section Weight (lb) = 181 Section Weight (lb) = 181 Section Weight (lb) = 182 Section Weight (lb) =	-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-43DD-0044 Total Tower Weight With Guys and Ext. (tb) = 32326 Total Tower Weight With Guys and Ext. (tb) = 32326 Total Tower Weight With Guys and Ext. (tb) = 32326 Total Tower Height(t) = 171 Section Weight (tb) = 28614 Re Preparation Suspension Tower Type "A3" Total Cost = \$ 2.798 per pound Sembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. Total structure count: -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. So5573-4622-43DD-005 -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. So5573-4622-43DD-005 -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. So5573-4622-43DD-005 -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. So5573-4622-43DD-005 -D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. So5573-4622-43DD-005 -D28 Assemble Tower Weight With Guys and Ext. (tb) = 15745 -D28 Assemble Tower Weight With Guys and Ext. (tb) = 10000000000000000000000000000000000	-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-43DD-0044 Total Tower Weight With Guys and Ext. (ib.) = 32326 Total Tower Height(th) = 171 Section Weight (b) = 28614 tel Preparation	-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg, 5.05573-4622-43DD-0044 Total Tower Weight With Guys and Ext. (ib.) = 32326 to 10	-D27 Assembly and Erection of Suspension Tower Type "A2" + 19.5" as per dwg, 505573-4622-43DD-0044 Total Tower Weight With Guys and Est. (b) = 32326 to Preparation shi Prepar	-D27 Assembly and Erection of Suspension Tower Type *\frac{1}{2} + 19.5" as per dwg. 505573-4622-43DD-0044 Total Tower Weight With Guys and Est. (ib.) = 32326	-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg, 505573-4822-43DD-0044 Total Tower Weight Willin Copy and Ext. (b.) = 32326 To Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 171 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section Weight Willin Copy and Ext. (b.) = 32326 Tower Hospith): 172 section W	-DZ7 Assembly and Erection of Suspension Tower Type "A2" + 19.5" as per dwg. 505573-4822-430D-0004 Tost TownwigkyWit Cyps and EX. (b) 32326 Tost Tower Heightill 171 5040 Weight (b) 28614 e Preparation is the requirement 6ach 0 1 16.65 5 44.10, 1 5 7,080,000 9 - 0 5 - tup Blocks 6ach 0 1 16.65 5 44.10, 1 5 5,086,80 5 - 0 5 - tup Blocks 6ach 0 3 7,000 5 221,80 8 503,68 5 - 0 5 - tup Blocks 6ach 0 3 7,000 5 221,80 8 503,68 5 - 0 5 - tup Blocks 6ach 0 4 40,05 5 1,183,02 5 56,069,29 5 - 0 5 - tup Blocks 6ach 0 39 33,00 5 1,258,65 5 3,775,95 5 - 0 5 - tup Blocks 6ach 0 27 0,00 5 1,289,07 5 - 0 5 - tup Blocks 6ach 0 44 40,05 5 1,482,02 5 5 60,092,00 5 - tup Blocks 6ach 0 27 0,00 5 1,289,07 5 - 0 5 - tup Blocks 6ach 0 40 5,00 5 1,482,02 5 7,410,47 5 - 0 5 - tup Blocks 6ach 0 44 2,00 5 1,482,02 5 1,820,00 5 - tup Blocks 6ach 0 44 2,00 5 1,482,02 5 1,820,00 5 - tup Blocks 6ach 0 44 2,00 5 1,482,02 5 1,820,00 5 - tup Blocks 6ach 0 44 2,00 5 1,482,02 5 1,820,00 5 - tup Blocks 6ach 0 44 2,00 5 1,482,02 5 1,820,00 5 - tup Blocks 6ach 0 7 2,00 5 5,608,81 5 1,820,00 5 - tup Blocks 6ach 0 12 2,60 5 676,51 5 1,820,00 5 - Total Cost 5 2,798 per pound 5 5,008,827,64 5 - Total Cost 5 2,798 per pound 5 5,008,827,64 5 - Total Cost 5 2,798 per dwg 5,005,734,8224,3000,000 1,740,70	-DZY Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg, 505573-4822-43DD-0044 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Froat Time Week With Guyen et Rt. (b) = 32328 Froat Time Height(b) = 171 sector Weight(b) = 2 Fro	-D27 Assembly and Erection of Suspension Tower Type "A2" + 19.5" as per dwy, 505673 44922-430D-0054 280144 2.00 \$ 0.75.12 \$ 1.350.24 \$. 0 \$



	NALCOR 350 kV HVdc Line Construction Front 3 (Newfo	oundland)				Crew Cost						Total Unit Cost	
nt	Description		Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
L	peson priori		IUlai	CIEW NO.	unit	nouny Kale	Unit Cost	Gubiolai	OTIILO	Utili COSI	ivialeliais	ivialeriais	i Otal Iviatellais
	S1-D29 Assembly and Erection of Suspension Tower Type "A3		Total structure count:	20	EA		\$	1,023,971.75	\$	51,198.59 \$	-	\$ 51,198.59	\$
	S1-D29 Assembly and Erection of Suspension Tower Type "A3 + 1				•								
Г	0	otal Tower Height(ft) =	152 Section Weight (lb) =	16253	0.00	Φ 075.40	4.050.04	07.004.00	00 6	4.050.04			
<u> </u>		te Preparation	each 20	<u>2</u> 1	2.00	\$ 675.12	, , , , ,	27,004.90	20 \$	1,350.24			
		auling	each 20 each 20	3	6.85 2.00	\$ 441.04 \$ \$ 281.84 \$		60,387.27 11,273.69	20 \$ 20 \$	3,019.36 563.68			
		ocking Crew	each 20	4	27.86	\$ 1,183.92	32,983.04 \$	659,660.72		32,983.04			
		uy Install	each 20	39	2.00	\$ 1,258.65		50,345.99	20 \$	2,517.30			
		- Helicopter	each 20	27	0.00	\$ 21,899.72		-	20 \$	-			
_		Tower Erection	each 20	40	3.50	\$ 1,482.09		103,746.59	20 \$	5,187.33			
	0	ower Plumb	each 20	41	2.00	\$ 913.00	· · · · · · · · · · · · · · · · · · ·	36,520.06	20 \$	1,826.00			
Ī	naul Insulators and Travellers	aul Travellers&Glass	each 20	7	1.50	\$ 636.64	954.96 \$		20 \$	954.96			
	Hang Travellers	ang Travellers	each 20	8	1.00	\$ 1,444.07			20 \$	1,444.07			
	Tie -in	e -in	each 20	12	2.00	\$ 676.30	1,352.60 \$	27,052.07		1,352.60			
			each 20			- 9		-	20 \$	-			
	Total Cost =	\$ 2.919	per pound				51,198.59	1,023,971.75	\$	51,198.59			
	04 000 4 11 15 11 10 1 5 5 5 5 5 5	0.11	T-1-1-1-1					4 504 000 40		F4 070 F0 A		A 54 070 50	•
	S1-D30 Assembly and Erection of Suspension Tower Type "A3			29	EA		\$	1,504,303.48	\$	51,872.53 \$	-	\$ 51,872.53	3
,	S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3 Total Tower Weight With Guys and Ext. (lb) = 17720 To	i" as per dwg. 5055 otal Tower Height(ft) =	157 Section Weight (lb) =	16557									
Г	0		each 29	2	2.00	\$ 675.12	1,350.24 \$	39,157.10	29 \$	1,350.24			
-		te Preparation	each 29	1	6.97	\$ 441.04			29 \$	3,075.88			
<u> </u>		auling ocking Crew	each 29	3	2.00	\$ 281.84		16,346.85	29 \$	563.68			
	·	ocking Grew attice Assembly	each 29	4	28.38	\$ 1,183.92		974,413.38	29 \$	33,600.46			
		uy Install	each 29	39	2.00	\$ 1,258.65		73,001.69	29 \$	2,517.30			
		. Helicopter	each 29	27	0.00	\$ 21,899.72		-	29 \$	-			
_		Tower Erection	each 29	40	3.50	\$ 1,482.09		150,432.55	29 \$	5,187.33			
Ī	Plumb Tower To	ower Plumb	each 29	41	2.00	\$ 913.00		52,954.09	29 \$	1,826.00			
	naul Insulators and Travellers	aul Travellers&Glass	each 29	7	1.50	\$ 636.64		27,693.73	29 \$	954.96			
_	ŭ	ang Travellers	each 29	8	1.00	\$ 1,444.07		41,877.94	29 \$	1,444.07			
Ľ	Tie -in Tie	e -in	each 29	12	2.00	\$ 676.30		39,225.50	29 \$	1,352.60			
L	T. (10)	Φ 0.000	each 29			- 9		-	29 \$	-			
	Total Cost =	\$ 2.906	per pound			3	51,872.53	1,504,303.48	\$	51,872.53			
	S1-D31 Assembly and Erection of Suspension Tower Type "A3	. 45" ac nor	Total structure count:	35	EA		\$	1,854,852.21	\$	52,995.78 \$		\$ 52,995.78	e e
	S1-D31 Assembly and Erection of Suspension Tower Type "A3 S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4			- 33	EA		Þ	1,004,002.21	D	32,393.10 \$	-	φ 32,993.78	Ψ
,	· · · · · · · · · · · · · · · · · · ·	otal Tower Height(ft) =	162 Section Weight (lb) =	17064									
Ţ.		te Preparation	each 35	2	2.00	\$ 675.12	1,350.24 \$	47,258.57	35 \$	1,350.24			
-		auling	each 35	1	7.19	\$ 441.04		110,953.01	35 \$	3,170.09			
1		ocking Crew	each 35	3	2.00	\$ 281.84		19,728.96	35 \$	563.68			
	·	attice Assembly	each 35	4	29.25	\$ 1,183.92	34,629.50 \$	1,212,032.62	35 \$	34,629.50			
-	- 1	uy Install	each 35	39	2.00	\$ 1,258.65	-,	88,105.48	35 \$	2,517.30			
		Helicopter	each 35	27	0.00	\$ 21,899.72		-	35 \$	-			
		Tower Erection	each 35	40	3.50	\$ 1,482.09				5,187.33			
-		ower Plumb	each 35	41	2.00	\$ 913.00		· ·		1,826.00			
-		aul Travellers&Glass	each 35	7	1.50	\$ 636.64		33,423.46	35 \$	954.96			
-		ang Travellers	each 35	8	1.00	\$ 1,444.07			35 \$	1,444.07			
	Tie -in Tie	e -in	each 35	12	2.00	\$ 676.30		47,341.12	35 \$	1,352.60			
Г			each 35			\$ -	5 - \$	-	35 \$	-			
	Total Cost =	\$ 2.886	per pound			d	52,995.78 \$	1,854,852.21	\$	52,995.78			



	NALCOR 350 kV HVdc Line Constructio	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
ent	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
	= 555puon			, Jul	CICW NO.	L dill	Hourry Nate	Offic Cost	Captotal	OTHEO	Offic OOSC	Materials	Materials	. Star Materials
	S1-D32 Assembly and Erection of Suspension				44	EA			\$ 2,341,054.1	\$	53,205.78	-	\$ 53,205.78	\$
	S1-D32 Assembly and Erection of Suspension T	ower Type "A3 + 6" as per dwg. 50	5573-4622-43	DD-0050		<u>—</u>								
	Total Tower Weight With Guys and Ext. (lb) =	18423 Total Tower Height(ft) =	167	Section Weight (lb) =	17159							-		
	Site Preparation	Site Preparation	each	44	2	2.00	\$ 675.12	\$ 1,350.24						
	Haul	Hauling	each	44	1	7.23	\$ 441.04	\$ 3,187.70						
	Setup Blocks	Blocking Crew	each	44	3	2.00	\$ 281.84	\$ 563.68						
	Assemble Tower	Lattice Assembly	each	44	4	29.41	\$ 1,183.92	\$ 34,821.89						
	Install Guy Strand	Guy Install	each	44	39	2.00	+ .,=	\$ 2,517.30				4		
	Helicopter Set	HL Helicopter	each	44	27	0.00 3.50	\$ 21,899.72	\$ - • 5407.00	\$ -	44 \$				
	Crane Set Plumb Tower	Y- Tower Erection	each	44 44	40 41	2.00	+ .,	\$ 5,187.33 \$ 1,826.00						
	haul Insulators and Travellers	Tower Plumb	each	44	7	1.50	\$ 913.00 \$ 636.64							
	Hang Travellers	Haul Travellers&Glass Hang Travellers	each each	44	8	1.00	\$ 1,444.07					1		
	Tie -in	Hang Travellers Tie -in	each	44	12	2.00	\$ 676.30							
	110 -111	ile-in	each	44	12	2.00		\$ 1,332.00		44 \$				
	Tot	tal Cost = \$ 2.88	2 per pound				<u> </u>	\$ 53,205.78				J		
	101	Ψ 2.00	_ Po. Poulla	1				00,200.10	2,041,004.1		50,200.70	<u>.</u>		
	S1-D33 Assembly and Erection of Suspension	n Tower Type "A3 + 7.5" as per	Total struc	ture count:	45	EA			\$ 2, 435,795.4	7 9	54,128.79	\$ -	\$ 54,128.79	\$
	S1-D33 Assembly and Erection of Suspension T					_					,			•
	Total Tower Weight With Guys and Ext. (lb) =	18890 Total Tower Height(ft) =		Section Weight (lb) =	17575									
	Site Preparation	Site Preparation	each	45		2.00	\$ 675.1 2	\$ 1,350.24	\$ 60,761.03	2 45 \$	1,350.24	1		
	Haul	Hauling	each	45	1	7.40	\$ 441.04							
	Setup Blocks	Blocking Crew	each	45	3	2.00	\$ 2 81.84	\$ 563.68	\$ 25,365.8					
	Assemble Tower	Lattice Assembly	each	45	4	30.13	\$ 1,183.92	\$ 35,667.49	\$ 1,605,037.2	45 \$	35,667.49			
	Install Guy Strand	Guy Install	each	45	39	2.00	\$ 1,258.65	\$ 2,517.30	\$ 113,278.4	3 45 \$	2,517.30			
	Helicopter Set	HL Helicopter	each	45	27	0.00	\$ 21,899.72	\$ -	\$ -	45 \$				
	Crane Set	Y- Tower Erection	each	45	40	3.50	\$ 1,482.09							
	Plumb Tower	Tower Plumb	each	45	41	2.00	\$ 913.00					_		
	haul Insulators and Travellers	Haul Travellers&Glass	each	45	7	1.50	6 36.64							
	Hang Travellers	Hang Travellers	each	45	8	1.00	\$ 1,444.07							
	Tie -in	Tie -in	each	45	12	2.00	\$ 676.30							
			each	45			\$ -	_	\$ -	45 \$				
	101	tal Cost = \$ 2.86	6 per pound	1				\$ 54,128.79	\$ 2,435,795.4	\$	54,128.79			
	04 004 4 4 4 4 4 4 4	T T "AO O" .	T-1-1-1-1		20				¢ 4040.740.0		54.000.44	•	£ 54.000.44	•
	S1-D34 Assembly and Erection of Suspension S1-D34 Assembly and Erection of Suspension T				30	EA			\$ 1,640,712.3	\$	54,690.41	Ψ -	\$ 54,690.41	Φ
	Total Tower Weight With Guys and Ext. (lb) =	19194 Total Tower Height(ft) =		Section Weight (lb) =	17829									
J	Site Preparation	Site Preparation	each	30	2	2.00	\$ 675.12	\$ 1,350.24	\$ 40,507.3	30 \$	1,350.24	7		
	Haul	Site Preparation Hauling	each	30	1	7.51	\$ 441.04					1		
	Setup Blocks	Blocking Crew	each	30	3	2.00	\$ 281.84					1		
	Assemble Tower	Lattice Assembly	each	30	4	30.56	\$ 1,183.92					1		
	Install Guy Strand	Guy Install	each	30	39	2.00	\$ 1,258.65	\$ 2,517.30				1		
	Helicopter Set	HL Helicopter	each	30	27	0.00			\$ -	30 \$		1		
		· · · · · · · · · · · · · · · · · · ·	each	30		3.50	\$ 1,482.09	•				1		
	Crane Set	Y- Tower Erection				2.00	\$ 913.00					1		
	Crane Set Plumb Tower	Y- Tower Erection Tower Plumb	each	30	41			Ψ 1,020.00 1						
				30	41 7	1.50	\$ 636.64	·		30 \$	954.96			
	Plumb Tower	Tower Plumb	each		7			\$ 954.96	\$ 28,648.6					
	Plumb Tower haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each each	30	7 8	1.50 1.00	\$ 636.64	\$ 954.96 \$ 1,444.07	\$ 28,648.66 \$ 43,322.0	30 \$	1,444.07			
	Plumb Tower haul Insulators and Travellers Hang Travellers	Tower Plumb Haul Travellers&Glass Hang Travellers	each each each	30 30	7 8	1.50 1.00	\$ 636.64 \$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07	\$ 28,648.66 \$ 43,322.0 \$ 40,578.1	30 \$	5 1,444.07 5 1,352.60			



	NALCOR 350 kV HVdc Line Constructio	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
ent	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
	2000p.to			. 5 ta.	Olew No.	unit	rioury rate	OTHE GOSE	ous total	0	Onit Goot	atorialo	materiale	. otal matemate
	S1-D35 Assembly and Erection of Suspension				32	EA			\$ 1,789,475.02		\$ 55,921.09	-	\$ 55,921.09	\$
	S1-D35 Assembly and Erection of Suspension T													
ı	Total Tower Weight With Guys and Ext. (lb) =	19800 Total Tower Height(ft) =	182	Section Weight (lb) =	18384	0.00	A 075 40	4.050.04	A 40.007.0	1 001	1 050 04	7		
	Site Preparation	Site Preparation	each	32	2	2.00	\$ 675.12	\$ 1,350.24			•			
	Haul	Hauling	each	32	1	7.74	\$ 441.04	\$ 3,415.42		32				
	Setup Blocks Assemble Tower	Blocking Crew	each each	32 32	<u>3</u>	2.00 31.51	\$ 281.84 \$ 1,183.92	\$ 563.68 \$ 37,309.49			•			
	Install Guy Strand	Lattice Assembly	each	32	39	2.00		\$ 2,517.30						
	Helicopter Set	Guy Install	each	32	27	0.00	\$ 21,899.72	\$ 2,317.50	\$ 00,555.55	32				
	Crane Set	HL Helicopter Y- Tower Erection	each	32	40	3.50	 	\$ 5,187.33	Ψ	32				
	Plumb Tower	Tower Plumb	each	32	41	2.00	\$ 913.00							
	haul Insulators and Travellers	Haul Travellers&Glass	each	32	7	1.50	\$ 636.64							
	Hang Travellers	Hang Travellers	each	32	8	1.00	\$ 1,444.07							
	Tie -in	Tie -in	each	32	12	2.00	\$ 676.30							
Ì		***	each	32				\$ -		32		1		
L	To	otal Cost = \$ 2.83	8 per pound	<u> </u>			<u> </u>	\$ 55,921.09			\$ 55,921.09	_		
				1						_	,	_		
;	S1-D36 Assembly and Erection of Suspension	n Tower Type "A3 + 12" as per	Total struc	ture count:	24	EA			\$ 1,351,951.74		\$ 56,331.32	\$ -	\$ 56,331.32	\$
	S1-D36 Assembly and Erection of Suspension T	Tower Type "A3 + 12" as per dwg. 5	05573-4622-4	3DD-0050		_ '								
	Total Tower Weight With Guys and Ext. (lb) =	20036 Total Tower Height(ft) =	187	Section Weight (lb) =	18570									
	Site Preparation	Site Preparation	each	24	2	2.00	\$ 675.1 2	\$ 1,350.24	\$ 32,405.88	24	\$ 1,350.24			
	Haul	Hauling	each	24	1	7.82	\$ 441.04	\$ 3,449.82	\$ 82,795.76	24				
	Setup Blocks	Blocking Crew	each	24	3	2.00	\$ 2 81.84			24	\$ 563.68			
	Assemble Tower	Lattice Assembly	each	24	4	31.83	\$ 1,183.92	\$ 37,685.31						
	Install Guy Strand	Guy Install	each	24	39	2.00	\$ 1,258.65		\$ 60,415.19					
	Helicopter Set	HL Helicopter	each	24	27	0.00	\$ 21,899.72		\$ -	24	•			
	Crane Set	Y- Tower Erection	each	24	40	3.50	\$ 1,482.09			24				
				24	41	2.00	\$ 913.00	\$ 1,826.00	\$ 43,824.07	24				
	Plumb Tower	Tower Plumb	each											
	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each	24	7	1.50	\$ 636.64	\$ 954.96						
	haul Insulators and Travellers Hang Travellers		each each	24 24	8	1.50 1.00	\$ 1,444.07	\$ 954.96 \$ 1,444.07	\$ 34,657.61	24	\$ 1,444.07	<u> </u> - -		
	haul Insulators and Travellers	Haul Travellers&Glass	each each each	24 24 24		1.50	\$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60	\$ 34,657.61 \$ 32,462.48	24 24	\$ 1,444.07 \$ 1,352.60	_		
	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers&Glass Hang Travellers Tie -in	each each each each	24 24 24 24	8	1.50 1.00	\$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ -	\$ 34,657.61 \$ 32,462.48 \$ -	24 24 24	\$ 1,444.07 \$ 1,352.60 \$ -			
	haul Insulators and Travellers Hang Travellers Tie -in	Haul Travellers&Glass Hang Travellers Tie -in	each each each	24 24 24 24	8	1.50 1.00	\$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60	\$ 34,657.61 \$ 32,462.48 \$ -	24 24 24	1,444.07 1,352.60			
	haul Insulators and Travellers Hang Travellers Tie -in Total	Haul Travellers & Glass Hang Travellers Tie -in otal Cost = \$ 2.83	each each each each 1 per pound	24 24 24 24 24	8 12	1.50 1.00 2.00	\$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74	24 24 24	\$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	_	¢ =7.054.04	· c
7	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspension	Haul Travellers & Glass	each each each each 1 per pound	24 24 24 24 24 ture count:	8	1.50 1.00	\$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	\$ 34,657.61 \$ 32,462.48 \$ -	24 24 24	\$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	_	\$ 57,254.34	\$
7	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspension T	Haul Travellers Glass Hang Travellers Tie -in stal Cost = \$ 2.83 on Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg.	each each each each 1 per pound Total struct 505573-4622	24 24 24 24 24 24 24 24	8 12 22	1.50 1.00 2.00	\$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74	24 24 24	\$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	_	\$ 57,254.34	\$
7	haul Insulators and Travellers Hang Travellers Tie -in Toi S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) =	Haul Travellers & Glass Hang Travellers Tie -in otal Cost = \$ 2.83 on Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) =	each each each each 1 per pound Total struct 505573-4622 192	24 24 24 24 24 24 24 24 24 25 26 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8 12 22 18986	1.50 1.00 2.00	\$ 1,444.07 \$ 676.30 \$ -	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.39	24 24 24 24	\$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 57,254.34	_	\$ 57,254.34	\$
7	haul Insulators and Travellers Hang Travellers Tie -in Toi S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	Haul Travellers & Glass Hang Travellers Tie - in Partial Cost = \$ 2.83 In Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Ste Preparation	each each each each 1 per pound Total struct 505573-4622 192 each	24 24 24 24 24 24 24 24 24 25 26 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8 12 22	1.50 1.00 2.00	\$ 1,444.07 \$ 676.30 \$ -	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.39 \$ 29,705.39	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 57,254.34 \$ 1,350.24	- \$ -	\$ 57,254.34	\$
	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspension S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul	Haul Travellers & Glass Hang Travellers Tie -in Stal Cost = \$ 2.83 In Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Site Preparation Hauling	each each each each 1 per pound Total struct 505573-4622 192 each each	24 24 24 24 24 24 24 24 24 24 24 22 22	8 12 22 18986 2	1.50 1.00 2.00 EA	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.39 \$ 29,705.39 \$ 77,599.12	24 24 24 24 24 22 22 22	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23	- \$ -	\$ 57,254.34	\$
	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspension S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks	Haul Travellers & Glass Hang Travellers Tie -in Stal Cost = \$ 2.83 In Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each 1 per pound Total struc 505573-4622 192 each each each	24 24 24 24 24 24 24 24 24 25 26 27 22 22	8 12 22 18986 2 1	1.50 1.00 2.00 EA	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.39 \$ 29,705.39 \$ 77,599.12 \$ 12,401.06	24 24 24 24 24 24 22 22 22 22 22 22 22 2	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68	- \$ -	\$ 57,254.34	\$
	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspension S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks Assemble Tower	Haul Travellers & Glass Hang Travellers Tie -in tal Cost = \$ 2.83 Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each 1 per pound Total struc 505573-4622 192 each each each each	24 24 24 24 24 24 24 24 24 25 26 20 22 22 22	8 12 22 18986 2 1 3 4	1.50 1.00 2.00 EA 2.00 8.00 2.00 32.55	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.38 \$ 29,705.38 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13	24 24 24 24 24 22 22 22 22 22	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92	- \$ -	\$ 57,254.34	\$
	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspension S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Haul Travellers & Glass Hang Travellers Tie -in Intal Cost = \$ 2.83 In Tower Type "A3 + 13.5" as per Fower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each 1 per pound Total struc 505573-4622 192 each each each each each	24 24 24 24 24 24 24 24 24 25 26 27 22 22 22 22	8 12 22 18986 2 1 3 4 39	1.50 1.00 2.00 2.00 8.00 2.00 32.55 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.38 \$ 29,705.38 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13 \$ 55,380.58	24 24 24 24 24 22 22 22 22 22 22	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30	- \$ -	\$ 57,254.34	\$
, [[haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D37 Assembly and Erection of Suspensio S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Haul Travellers Glass Hang Travellers Tie -in Intal Cost = \$ 2.83 In Tower Type "A3 + 13.5" as per Flower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter	each each each each 1 per pound Total struc 505573-4622 192 each each each each each each	24 24 24 24 24 24 24 24 24 22 22 22 22 2	8 12 22 18986 2 1 3 4 39 27	1.50 1.00 2.00 2.00 8.00 2.00 32.55 2.00 0.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ -	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.72 \$ 1,259,595.39 \$ 29,705.39 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13 \$ 55,380.59 \$ -	24 24 24 24 24 22 22 22 22 22 22 22 22	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30	-	\$ 57,254.34	\$
, ,	haul Insulators and Travellers Hang Travellers Tie -in To: S1-D37 Assembly and Erection of Suspensio S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Haul Travellers Glass	each each each each 1 per pound Total struc 505573-4622 192 each each each each each each each each	24 24 24 24 24 24 24 24 24 22 22 22 22 2	8 12 22 18986 2 1 3 4 39 27 40	2.00 8.00 2.00 32.55 2.00 0.00 3.50	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.74 \$ 1,259,595.39 \$ 29,705.39 \$ 77,599.12 \$ 12,401.00 \$ 847,680.13 \$ 55,380.59 \$ 114,121.25	24 24 24 24 24 22 22 22 22 22 22 22 22	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33	-	\$ 57,254.34	\$
, ,	haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D37 Assembly and Erection of Suspensio S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Haul Travellers Glass	each each each each 1 per pound Total struc 505573-4622 192 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	8 12 22 18986 2 1 3 4 39 27 40 41	2.00 8.00 2.00 32.55 2.00 0.00 3.50 2.00	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00	\$ 34,657.61 \$ 32,462.48 \$ - \$ 1,351,951.72 \$ 1,259,595.39 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13 \$ 55,380.59 \$ - \$ 114,121.25 \$ 40,172.07	24 24 24 24 24 22 22 22 22 22 22 22 22 2	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00	-	\$ 57,254.34	\$
7	haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D37 Assembly and Erection of Suspensio S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Haul Travellers Glass Hang Travellers Tie -in Potal Cost = \$ 2.83 Por Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per Glower Type "A3 + 13.5" as per Height (ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass	each each each each 1 per pound Total struc 505573-4622 192 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	8 12 22 18986 2 1 3 4 39 27 40 41 7	2.00 8.00 2.00 2.00 32.55 2.00 0.00 3.50 2.00 1.50	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96	\$ 34,657.61 \$ 32,462.48 \$ 1,351,951.74 \$ 1,259,595.39 \$ 29,705.39 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13 \$ 55,380.50 \$ 114,121.25 \$ 40,172.07 \$ 21,009.03	24 24 24 24 22 22 22 22 22 22 22 22 22 2	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96	-	\$ 57,254.34	\$
7	haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D37 Assembly and Erection of Suspensio S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Haul Travellers Glass Hang Travellers Tie -in Partial Cost = \$ 2.83 Part Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per dwg. 20503 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Flumb Haul Travellers & Glass Hang Travellers	each each each each 1 per pound Total struc 505573-4622 192 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	8 12 22 18986 2 1 3 4 39 27 40 41 7 8	2.00 8.00 2.00 32.55 2.00 0.00 3.50 2.00 1.50	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07	\$ 34,657.61 \$ 32,462.48 \$ 1,351,951.74 \$ 1,259,595.35 \$ 29,705.39 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13 \$ 55,380.55 \$ 114,121.25 \$ 40,172.07 \$ 21,009.03 \$ 31,769.47	24 24 24 24 24 22 22 22 22 22 22 22 22 2	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 563.69 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07	-	\$ 57,254.34	\$
7	haul Insulators and Travellers Hang Travellers Tie -in Toi S1-D37 Assembly and Erection of Suspensio S1-D37 Assembly and Erection of Suspension T Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Haul Travellers Glass Hang Travellers Tie -in Potal Cost = \$ 2.83 Por Tower Type "A3 + 13.5" as per Tower Type "A3 + 13.5" as per Glower Type "A3 + 13.5" as per Height (ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass	each each each each 1 per pound Total struc 505573-4622 192 each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	8 12 22 18986 2 1 3 4 39 27 40 41 7 8	2.00 8.00 2.00 32.55 2.00 0.00 3.50 2.00 1.50	\$ 1,444.07 \$ 676.30 \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 954.96 \$ 1,444.07 \$ 1,352.60 \$ - \$ 56,331.32 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07	\$ 34,657.61 \$ 32,462.48 \$ 1,351,951.74 \$ 1,259,595.35 \$ 29,705.39 \$ 77,599.12 \$ 12,401.06 \$ 847,680.13 \$ 55,380.55 \$ 114,121.25 \$ 40,172.07 \$ 21,009.03 \$ 31,769.47 \$ 29,757.28	24 24 24 24 22 22 22 22 22 22 22 22 22 2	\$ 1,444.07 \$ 1,352.60 \$ 56,331.32 \$ 57,254.34 \$ 1,350.24 \$ 3,527.23 \$ 563.68 \$ 38,530.92 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07 \$ 1,352.60	-	\$ 57,254.34	\$



N	IALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)					Crew Cost							Total Unit Cos	
t				Units		Hours per								Manhours and	
De	escription			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Ma	iterials	Materials	Total Materials
_					07				A 4 570 700	10	A 50.433.05	•		A 50.477	05 0
	1-D38 Assembly and Erection of Suspension Tower Typ		Total struct		27	EA			\$ 1,570,788.	12	\$ 58,177.35	\$	-	\$ 58,177	.35 \$
5	1-D38 Assembly and Erection of Suspension Tower Type ". Total Tower Weight With Guys and Ext. (lb) = 20970				19403										
0:	ite Preparation	Total Tower Height(ft) =	each	Section Weight (lb) =	19403	2.00	\$ 675.12	\$ 1,350.24	\$ 36,456.	31 27	\$ 1.350.24	1			
	aul	Site Preparation	each	27	1	8.17	\$ 441.04								
	etup Blocks	Hauling	each	27	3	2.00	\$ 281.84	\$ 563.68							
	ssemble Tower	Blocking Crew	each	27	4	33.26	\$ 1.183.92	\$ 39.376.52							
	istall Guy Strand	Lattice Assembly	each	27	39	2.00	\$ 1,163.92 \$ 1,258.65	\$ 2,517.30	1 1 1 1 1 1						
	elicopter Set	Guy Install HL Helicopter	each	27	27	0.00	 	\$ 2,517.50	\$ 07,907.	27		+			
	rane Set	HL Helicopter Y- Tower Erection	each	27	40	3.50	\$ 1,482.09	•	Ψ			+			
	lumb Tower	Y- Tower Erection Tower Plumb	each	27	40	2.00	\$ 913.00								
	aul Insulators and Travellers		each	27	7	1.50	\$ 636.64								
	ang Travellers	Haul Travellers&Glass Hang Travellers	each	27	8	1.00	\$ 030:04 \$ 1.444.07		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_			
IH:			Cacii	21			<u>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </u>	,				_			
	<u> </u>		each	27	12	2.00	676 30	1 352 60		00 27	I \$ 1352 60				
	ie -in	Tie -in	each	27	12	2.00	\$ 676.30 \$								
	ie -in	Tie -in	each	27	12	2.00	·	\$ -	\$ -	27	\$ -				
	<u> </u>	Tie -in		27	12	2.00	·		\$ -	27	\$ -				
Ti	ie -in Total Cost =	Tie -in \$ 2.8	each 05 per pound	27	12	2.00 EA	·	\$ -	\$ -	27	\$ -]		\$ 58,743	.85 \$
Ti S'	ie -in Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ	\$ 2.8 be "A3 + 16.5" as per	each 05 per pound Total struct	27 ture count:			·	\$ -	\$ - \$ 1,570,788.	27	\$ - \$ 58,177.35]	-	\$ 58,743	.85 \$
Ti-	ie -in Total Cost =	\$ 2.8 be "A3 + 16.5" as per	each 05 per pound Total struc g. 505573-4622-	27 ture count:			·	\$ -	\$ - \$ 1,570,788.	27	\$ - \$ 58,177.35]	-	\$ 58,743	.85 \$
Sí Sí	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type "A	\$ 2.8 e "A3 + 16.5" as per A3 + 16.5" as per dwg	each 05 per pound Total struc g. 505573-4622-	27 ture count: -43DD-0050	13		·	\$ - \$ 58,177.35	\$ 1,570,788. \$ 763,670.	27	\$ 58,177.35 \$ 58,743.85	_ _ _ \$		\$ 58,743	.85 \$
Sí Sí	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type "/ Total Tower Weight With Guys and Ext. (Ib) = 21276	\$ 2.8 oe "A3 + 16.5" as per A3 + 16.5" as per dwo Total Tower Height(ft) =	each 05 per pound Total struc g. 505573-4622- 202	27 ture count: -43DD-0050 Section Weight (lb) =	13 19659	EA	\$ -	\$ - \$ 58,177.35 \$ 1,350.24	\$ 1,570,788. \$ 763,670. \$ 17,553.	27 12 11	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24	\$		\$ 58,743	.85 \$
Si Ha	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type "/ Total Tower Weight With Guys and Ext. (Ib) = 21276 ite Preparation	\$ 2.8 Pe "A3 + 16.5" as per A3 + 16.5" as per dwo Total Tower Height(ft) = Site Preparation	each 05 per pound r Total struc g. 505573-4622- 202 each	ture count: -43DD-0050 Section Weight (lb) =	13 19659	EA	\$ - \$ 675.1 2	\$ - \$ 58,177.35 \$ 1,350.24 \$ 3,652.15	\$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477.	27 12 11 18 13 98 13	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15	\$	-	\$ 58,743	.85 \$
Sí Sí Há Se	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type ". Total Tower Weight With Guys and Ext. (lb) = 21276 ite Preparation aul	Tie-in \$ 2.8 Pe "A3 + 16.5" as per A3 + 16.5" as per dwg Total Tower Height(ft) = Site Preparation Hauling	each 05 per pound Total struc g. 505573-4622- 202 each each	ture count: -43DD-0050 Section Weight (lb) = 13 13	13 19659 2 1	EA	\$ - \$ 675.12 \$ 441.04 \$ 281.84	\$ - \$ 58,177.35 \$ 1,350.24 \$ 3,652.15	\$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327.	27 11 18 13 18 13 19 13	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68	\$ \$		\$ 58,743	.85 \$
\$' \$' \$' \$i Ha	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type ". Total Tower Weight With Guys and Ext. (lb) = 21276 ite Preparation aul etup Blocks	Tie-in \$ 2.8 Pe "A3 + 16.5" as per A3 + 16.5" as per dwg Total Tower Height(ft) = Site Preparation Hauting Blocking Crew	each 05 per pound Total struc g. 505573-4622- 202 each each each	ture count: -43DD-0050 Section Weight (lb) = 13 13 13	13 19659 2 1 3	2.00 8.28 2.00	\$ - \$ 675.12 \$ 441.04 \$ 281.84	\$ - \$ 58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641.	27 12 11	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51	\$ 		\$ 58,743	.85 \$
Sí Sí Si Há Se As	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type ", Total Tower Weight With Guys and Ext. (Ib) = 21276 ite Preparation aul etup Blocks ssemble Tower	Tie-in \$ 2.8 Pe "A3 + 16.5" as per A3 + 16.5" as per dwg Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each 05 per pound Total struc g. 505573-4622- 202 each each each each	ture count: -43DD-0050 Section Weight (lb) = 13 13 13 13	13 19659 2 1 3 4	2.00 8.28 2.00 33.70	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ -58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641.	27 11 18	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30	\$ 		\$ 58,743	.85 \$
\$' \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ 1-D39 Assembly and Erection of Suspension Tower Type ", Total Tower Weight With Guys and Ext. (lb) = 21276 ite Preparation aul etup Blocks ssemble Tower istall Guy Strand	Tie-in \$ 2.8 Pe "A3 + 16.5" as per A3 + 16.5" as per dwg Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each 05 per pound Total struc g. 505573-4622- 202 each each each each each each	27 ture count: -43DD-0050 Section Weight (lb) = 13 13 13 13 13	13 19659 2 1 3 4 39	2.00 8.28 2.00 33.70 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ -58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ -	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641. \$ 32,724.	27 12 18 13 18 13 19 13 19 13 19 13	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ -	\$		\$ 58,743	.85 \$
S' S' Si Hi Se As In	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Typ: 1-D39 Assembly and Erection of Suspension Tower Type ",	Tie-in \$ 2.8 De "A3 + 16.5" as per dwo A3 + 16.5" as per dwo Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each per pound Total struc g. 505573-4622- 202 each each each each each each each	ture count: -43DD-0050 Section Weight (lb) = 13 13 13 13 13 13	13 19659 2 1 3 4 39 27	2.00 8.28 2.00 33.70 2.00 0.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ - \$ 58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641. \$ 32,724. \$ 67,435.	27 11 18 13 18 13 19 13 19 13 19 13 18 13	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33	\$		\$ 58,743	.85 \$
S' S' Si Hi Se As In He	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Type 1-D39 Assembly and Erection of Suspension Tower Type " Total Tower Weight With Guys and Ext. (lb) = 21276 ite Preparation aul etup Blocks ssemble Tower istall Guy Strand elicopter Set rane Set	Tie-in \$ 2.8 De "A3 + 16.5" as per A3 + 16.5" as per dwy Total Tower Height(ft) = Site Preparation Hauting Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each per pound Total struc g. 505573-4622- 202 each each each each each each each each	ture count: -43DD-0050 Section Weight (lb) = 13 13 13 13 13 13 13	13 19659 2 1 3 4 39 27 40	2.00 8.28 2.00 33.70 2.00 0.00 3.50	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ - \$ 58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641. \$ 32,724. \$ 67,435. \$ 23,738.	27 11 18 18 13 18 13 13 13 13 14 13 14 13	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00	\$	-	\$ 58,743	.85 \$
Si Si Si Si Si Si Si Si Si Si Si Si Si S	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Type 1-D39 Assembly and Erection of Suspension Tower Type " Total Tower Weight With Guys and Ext. (lb) = 21276 ite Preparation aul etup Blocks ssemble Tower istall Guy Strand elicopter Set rane Set lumb Tower	Tie-in \$ 2.8 De "A3 + 16.5" as per A3 + 16.5" as per dwy Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each per pound Total struc g. 505573-4622- 202 each each each each each each each each	ture count: -43DD-0050 Section Weight (lb) = 13 13 13 13 13 13 13 13	13 19659 2 1 3 4 39 27 40 41	2.00 8.28 2.00 33.70 2.00 0.00 3.50 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ - \$ 58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641. \$ 32,724. \$ 67,435. \$ 23,738. \$ 12,414.	27 	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ 5,187.33 \$ 1,826.00 \$ 954.96	\$		\$ 58,743	.85 \$
Si Si Si Si Si Si Si Si Si Si Si Si Si S	Total Cost = 1-D39 Assembly and Erection of Suspension Tower Type 1-D39 Assembly and Erection of Suspension Tower Type Total Tower Weight With Guys and Ext. (Ib) = 21276 ite Preparation aul etup Blocks ssemble Tower istall Guy Strand elicopter Set rane Set lumb Tower aul Insulators and Travellers	Tie-in \$ 2.8 Pe "A3 + 16.5" as per A3 + 16.5" as per dw Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Piumb Haul Travellers&Glass	each per pound Total struc g. 505573-4622- 202 each each each each each each each each	ture count: -43DD-0050 Section Weight (lb) = 13 13 13 13 13 13 13 13 13 13	13 19659 2 1 3 4 39 27 40 41	2.00 8.28 2.00 33.70 2.00 0.00 3.50 2.00 1.50	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ -58,177.35 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ - \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07	\$ 1,570,788. \$ 1,570,788. \$ 763,670. \$ 17,553. \$ 47,477. \$ 7,327. \$ 518,641. \$ 32,724. \$ 67,435. \$ 23,738. \$ 12,414. \$ 18,772.	8 13 8 13 90 13 90 13 90 13 91 13 13 13 14 13 13 13 17 13	\$ 58,177.35 \$ 58,743.85 \$ 1,350.24 \$ 3,652.15 \$ 563.68 \$ 39,895.51 \$ 2,517.30 \$ 5,187.33 \$ 1,826.00 \$ 954.96 \$ 1,444.07	\$		\$ 58,743	.85 \$





	NALCOR 350 kV HVdc Line Construction From	ont 3 (Newfoundland)				Crew Cost						Total Unit Cost	
ent			Units		Hours per							Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Assembly and Erection of Suspension To	ower Type "A4"	Tower Setti	ng Ratio	0.00	Helicopter	100% Cra	ne					
0	S1-D40 Assembly and Erection of Suspension Tov	wer Type "A4 + 0" as per dwg	. Total structure count:	0	EA	-	\$	-	\$	63,872.13	\$ -	\$ 63,872.13	\$
	S1-D40 Assembly and Erection of Suspension Tower	Type "A4 + 0" as per dwg. 505	573-4622-43DD-0056										
		1808 Total Tower Height(ft) =	107 Section Weight (lb) =								<u>-</u>		
	Site Preparation	Site Preparation	ouon ,	2	2.00	\$ 675.12 \$	1,350.24 \$		0 \$	-			
	Haul	Hauling	Caon	1	0.00	\$ 441.04 \$		-	0 \$	=			
	Setup Blocks	Blocking Crew	04.0	3		\$ 281.84 \$		-	0 \$	-			
	Assemble Tower	Lattice Assembly	each ('	36.20	\$ 1,183.92 \$		_	0 \$	-			
	Install Guy Strand	Guy Install	000	39	3.00	\$ 1,258.65 \$		-	0 \$	-			
	Helicopter Set	HL Helicopter	ouon ,	27	0.00	\$ 21,899.72 \$	- \$	-	0 \$	-			
	Crane Set	Y- Tower Erection	ouon ,	40	3.50	\$ 1,482.09 \$	0,101100	-	0 \$				
	Plumb Tower	Tower Plumb	000	41	2.00	\$ 913.00 \$	1,826.00 \$	-	0 \$	-			
	haul Insulators and Travellers	Haul Travellers&Glass	04.0	7		\$ 636.64 \$			0 \$	-			
	Hang Travellers	Hang Travellers	ouon	8	1.00	\$ 1,444.07 \$	1,444.07 \$	-	0 \$				
	Tie -in	Tie -in	Cuon	12	2.00	\$ 676.30 \$		-	0 \$	-			
	T.110		each ()		- \$		-	0 \$	-			
	Total Co	ost = \$ 2.817	7 per pound			\$	63,872.13 \$	-	\$	-			
4	S1-D41 Assembly and Erection of Suspension Tov	T.m. A.4 . 4 E	Total atrustura count	0	EA		\$		\$	65,360.77	¢	\$ 65,360.77	¢
	S1-D41 Assembly and Erection of Suspension Tower		Total structure count:	U	EA		\$	-	Ф	65,360.77	-	\$ 65,360.77	Ф
		2674 Total Tower Height(ft) =	112 Section Weight (lb) =	21934									
	Site Preparation	- 3 ()		2 1934	2.00	\$ 675.12 \$	1,350.24 \$		0 \$		1		
	Haul	Site Preparation	each		9.24	\$ 441.04 \$		-	0 \$	-			
	Setup Blocks	Hauling		3		\$ 281.84 \$		<u>-</u>	0 \$	<u>-</u>			
	Assemble Tower	Blocking Crew	each		37.60	\$ 1,183.92 \$		-	0 \$				
	Install Guy Strand	Lattice Assembly	each		3.00	\$ 1,258.65 \$	3,775.95 \$		0 \$				
	Helicopter Set	Guy Install HL Helicopter	each	27	0.00	\$ 21,899.72 \$			0 \$				
	Crane Set	Y- Tower Erection		40	3.50	\$ 1,482.09 \$		_	0 \$	_			
	Plumb Tower	Tower Plumb		41	2.00	\$ 913.00 \$		_	0 \$	_			
	haul Insulators and Travellers	Haul Travellers&Glass		7	2.00	\$ 636.64 \$		_	0 \$	_			
	Hang Travellers	Hang Travellers	each	· ·	1.00	\$ 1,444.07 \$	1,444.07 \$	_	0 \$	_			
	Tie -in	Tie -in		12	2.00	\$ 676.30 \$	1,352.60 \$	_	0 \$	_			
			each (\$ - \$		-	0 \$	_			
	Total Co	ost = \$ 2.794	1 per pound			\$	•	-	\$	_			
			. [[[]				• • • • • • • • • • • • • • • • • • • •						
	S1-D42 Assembly and Erection of Suspension Tov	wer Type "A4 + 3" as per dwg	. Total structure count:	0	EA		\$	-	\$	66,664.71	\$ -	\$ 66,664.71	\$
2	•	,	EE72 4622 42DD 00E6										
2	S1-D42 Assembly and Erection of Suspension Tower	· Type "A4 + 3" as per dwg. 505	3373-4022-43DD-0030										
2		Type "A4 + 3" as per dwg. 505 3313 Total Tower Height(ft) =	116 Section Weight (lb) =	22523									
ı			116 Section Weight (lb) =	22523		\$ 675.12 \$		_	0 \$				
ı	Total Tower Weight With Guys and Ext. (lb) =	Total Tower Height(ft) =	116 Section Weight (lb) =	2	9.49	\$ 441.04 \$	4,184.19 \$	<u>-</u>	0 \$	-			
	Total Tower Weight With Guys and Ext. (lb) = 2 Site Preparation	3313 Total Tower Height(ft) = Site Preparation	116 Section Weight (lb) =	2		\$ 441.04 \$ \$ 281.84 \$	4,184.19 \$ 563.68 \$			- - -			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul	3313 Total Tower Height(ft) = Site Preparation Hauling	116 Section Weight (lb) =	2 0 1 0 3 0 4	9.49 2.00 38.61	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$	-	0 \$ 0 \$ 0 \$				
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	116 Section Weight (lb) = each each each each each each each	2 0 1 0 3 0 4	9.49 2.00 38.61 3.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$	-	0 \$	-			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	116 Section Weight (lb) = each each each each each	2 1 3 4 3 9 27	9.49 2.00 38.61 3.00 0.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$	- - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$	-			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	116 Section Weight (lb) = each each each each each each each each	2 1 3 4 3 9 4 0 39 0 27 0 40	9.49 2.00 38.61 3.00 0.00 3.50	\$ 441.04 \$ 281.84 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$ 5,187.33 \$	- - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	-			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter	116 Section Weight (lb) = each each each each each each each each	2 1 3 4 3 9 27	9.49 2.00 38.61 3.00 0.00	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,258.65 \$ \$ 21,899.72 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$	- - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	116 Section Weight (lb) = each each each each each each each each	2 1 3 4 3 9 2 7 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	9.49 2.00 38.61 3.00 0.00 3.50	\$ 441.04 \$ 281.84 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$	- - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	116 Section Weight (lb) = each each each each each each each each	2 1 3 4 3 9 2 7 9 40 41 7	9.49 2.00 38.61 3.00 0.00 3.50 2.00 2.00 1.00	\$ 441.04 \$ 281.84 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$	- - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
	Total Tower Weight With Guys and Ext. (lb) = 2: Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers&Glass	116 Section Weight (b) = each each each each each each each each	2 0 1 0 3 4 9 0 39 0 27 0 40 0 41 7 8 0 12	9.49 2.00 38.61 3.00 0.00 3.50 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ \$ 636.64 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$	- - - - - -	0 S 0 S 0 S 0 S 0 S 0 S 0 S 0 S	- - - - -			
	Total Tower Weight With Guys and Ext. (lb) = 2 Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	3313 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Fundb Haul Travellers Glass Hang Travellers	116 Section Weight (b) = each each each each each each each each	2 0 1 0 3 4 9 0 39 0 27 0 40 0 41 7 8 0 12	9.49 2.00 38.61 3.00 0.00 3.50 2.00 2.00 1.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$	4,184.19 \$ 563.68 \$ 45,707.37 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$	- - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			



	NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
t	.			Units		Hours per	–		0	[l			Manhours and	T
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	O4 D40 Assembly and English of Occurrence	. T T A.A. A.E.	Total atmost			EA			•		¢ 00 400 70	•	¢ 00 400 70	l &
	S1-D43 Assembly and Erection of Suspension S1-D43 Assembly and Erection of Suspension To	10wer Type "A4 + 4.5" as per	Total struct		0	EA			-		\$ 68,466.78	-	\$ 68,466.78	Þ
	Total Tower Weight With Guys and Ext. (lb) =	24177 Total Tower Height(ft) =		Section Weight (lb) =	23336									
ſ	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12	\$ 1,350.24	-	0	\$ -	1		
	Haul	Hauling	each	0		9.83	\$ 441.04			0	\$ -	1		
	Setup Blocks	Blocking Crew	each	0		2.00	\$ 281.84			0				
	Assemble Tower	Lattice Assembly	each	0		40.00		\$ 47,358.31		0				
	Install Guy Strand	Guy Install	each	0	39	3.00	· ,	\$ 3,775.95		0				
	Helicopter Set	HL Helicopter	each	0	27	0.00	· · · · · · · · · · · · · · · · · · ·	\$ -	\$ -	0	\$ -			
	Crane Set	Y- Tower Erection	each	0	40	3.50	\$ 1,482.09	\$ 5,187.33	\$ -	0				
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00	\$ -	0		1		
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	\$ 1,273.27	\$ -	0		1		
ľ	Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07	\$ 1,444.07	\$ -	0	\$ -	1		
İ	Tie -in	Tie -in	each	0	12	2.00	\$ 676.30	\$ 1,352.60	\$ -	0				
ļ			each	0			\$ -	\$ -		0	\$ -			
•	Tota	al Cost = \$ 2.76	0 per pound			<u> </u>		\$ 68,466.78	\$ -		\$ -			
	S1-D44 Assembly and Erection of Suspension				0	EA			\$ -		\$ 68,720.73	-	\$ 68,720.73	\$
	S1-D44 Assembly and Erection of Suspension To	,,												
	Total Tower Weight With Guys and Ext. (lb) =	24342 Total Tower Height(ft) =		Section Weight (lb) =	23451							7		
	Site Preparation	Site Preparation	each	0		2.00	\$ 675.1 2			0				
	Haul	Hauling	each	0		9.88	\$ 441.04			0				
	Setup Blocks	Blocking Crew	each	1 0	3	2.00	\$ 28 1.84	\$ 563.68		0	\$ -			
	·													
	Assemble Tower	Lattice Assembly	each	0	4	40.20		\$ 47,590.96		0	\$ -			
	Install Guy Strand	•	each each	0	4 39	3.00	\$ 1,258.65	\$ 3,775.95	\$ -	0	\$ - \$ -			
	Install Guy Strand Helicopter Set	Lattice Assembly	each each each	0	4 39 27	3.00 0.00	\$ 1,258.65 \$ 21,899.72	\$ 3,775.95 \$ -	\$ - \$ -	0 0	\$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection	each each each each	0 0	4 39 27 40	3.00 0.00 3.50	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 3,775.95 \$ - \$ 5,187.33	\$ - \$ - \$	0 0 0	\$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb	each each each each	0 0 0	4 39 27 40 41	3.00 0.00 3.50 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00	\$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	000000000000000000000000000000000000000	4 39 27 40 41	3.00 0.00 3.50 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each	0 0 0 0 0	4 39 27 40 41 7	3.00 0.00 3.50 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	0 0 0 0 0 0 0 0	4 39 27 40 41 7 8	3.00 0.00 3.50 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	each each each each each each each each	0 0 0 0 0	4 39 27 40 41 7 8	3.00 0.00 3.50 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	each each each each each each each each	0 0 0 0 0 0 0 0	4 39 27 40 41 7 8	3.00 0.00 3.50 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Flumb Haul Travellers & Glass Hang Travellers Tile -in Tols = \$ 2.75	each each each each each each each each	000000000000000000000000000000000000000	4 39 27 40 41 7 8	3.00 0.00 3.50 2.00 2.00 1.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	•	\$ 70 E94 44	e.
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension	Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie-in al Cost = \$ 2.75	each each each each each each each each	0 0 0 0 0 0 0 0	4 39 27 40 41 7 8	3.00 0.00 3.50 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To	Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12	3.00 0.00 3.50 2.00 2.00 1.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) =	Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0	3.00 0.00 3.50 2.00 2.00 1.00 2.00	\$ 1,258.65 \$ 21,399.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ - \$ 68,720.73	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0	3.00 0.00 3.50 2.00 1.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ - \$ 68,720.73	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2	3.00 0.00 3.50 2.00 1.00 2.00 EA	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ - \$ 68,720.73 \$ 1,350.24 \$ 4,512.66	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in A Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2 1 3	3.00 0.00 3.50 2.00 1.00 2.00 EA	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ - \$ 68,720.73 \$ 1,350.24 \$ 4,512.66 \$ 563.68	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower	Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in A Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. \$25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2 1 3	3.00 0.00 3.50 2.00 1.00 2.00 EA 2.00 10.23 2.00 41.64	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ - \$ 68,720.73 \$ 1,350.24 \$ 4,512.66 \$ 563.68 \$ 49,295.59	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39	3.00 0.00 3.50 2.00 1.00 2.00 EA 2.00 10.23 2.00 41.64 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ - \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie-in Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39 27	3.00 0.00 3.50 2.00 1.00 2.00 EA 2.00 10.23 2.00 41.64 3.00 0.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	 	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Agiass Hang Travellers Tie-in Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39 27	3.00 0.00 3.50 2.00 2.00 1.00 2.00 10.23 2.00 41.64 3.00 0.00 3.50	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ - \$ 5,187.33	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Glass Hang Travellers Tie -in Tower Type A4 + 7.5 as per ower Type A4 + 7.5 as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39 27 40 41	3.00 0.00 3.50 2.00 2.00 1.00 2.00 10.23 2.00 41.64 3.00 0.00 3.50 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ 1,350.24 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ 1,350.24 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ 1,826.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in al Cost = \$ 2.75 Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass	each each each each each each each each	ture count: 3DD-0056 Section Weight (lb) =	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39 27 40 41 7	3.00 0.00 3.50 2.00 1.00 2.00 1.00 2.00 1.0.23 2.00 41.64 3.00 0.00 3.50 2.00 2.00	\$ 1,258.65 \$ 21,399.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in al Cost = \$ 2.75 Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Haul Travellers AGlass Hang Travellers	each each each each each each each each	ture count: 3DD-0056 Section Weight (lb) =	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39 27 40 41 7 8	3.00 0.00 3.50 2.00 1.00 2.00 1.00 2.00 41.64 3.00 0.00 3.50 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tota S1-D45 Assembly and Erection of Suspension S1-D45 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass Hang Travellers Tie -in al Cost = \$ 2.75 Tower Type "A4 + 7.5" as per ower Type "A4 + 7.5" as per dwg. 5 25232 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers AGlass	each each each each each each each each	ture count: 3DD-0056 Section Weight (lb) =	4 39 27 40 41 7 8 12 0 24291 2 1 3 4 39 27 40 41 7 8 12	3.00 0.00 3.50 2.00 1.00 2.00 1.00 2.00 1.0.23 2.00 41.64 3.00 0.00 3.50 2.00 2.00	\$ 1,258.65 \$ 21,399.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60 \$ 68,720.73 \$ 4,512.66 \$ 563.68 \$ 49,295.59 \$ 3,775.95 \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 70,581.41	\$



,	NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
nt	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
	04.044 11 15 11 15	T T "A4 2" .	Tatal 1		_	F.	•				A 71.005.55	•	A 74.005.05	
	S1-D46 Assembly and Erection of Suspension S1-D46 Assembly and Erection of Suspension To				0	EA			\$ -		\$ 71,885.35	-	\$ 71,885.35	\$
	Total Tower Weight With Guys and Ext. (lb) =	25871 Total Tower Height(ft) =	136	Section Weight (lb) =	24879									
,	Site Preparation	Site Preparation	each	O Section Weight (ib) =		2.00	675.12	\$ 1,350.24	\$ -	0	\$ -	Ī		
	Haul	Hauling	each	0		10.48	441.04			0				
	Setup Blocks	Blocking Crew	each	0		2.00	281.84			0		1		
L	Assemble Tower	Lattice Assembly	each	0		42.65	1,183.92	\$ 50,490.17		0		1		
	Install Guy Strand	Guy Install	each	0		3.00	1,258.65			0				
	Helicopter Set	HL Helicopter	each	0		0.00	21,899.72		\$ -	0				
	Crane Set	Y- Tower Erection	each	0		3.50	1,482.09		\$ -	0				
ļ	Plumb Tower	Tower Plumb	each	0	41	2.00	913.00	\$ 1,826.00	\$ -	0				
ļ	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	636.64	\$ 1,273.27	\$ -	0		1		
ļ	Hang Travellers	Hang Travellers	each	0	8	1.00	1,444.07	\$ 1,444.07	\$ -	0	\$ -			
ſ	Tie -in	Tie -in	each	0	12	2.00	676.30	\$ 1,352.60	\$ -	0	\$ -			
ſ			each	0			- (\$ -	\$ -	0	\$ -			
	Tota	al Cost = \$ 2.72	6 per pound					\$ 71,885. 35	\$ -		\$ -			
						_								
	S1-D47 Assembly and Erection of Suspension			ture count:	0	EA			-		\$ 73,687.42	-	\$ 73,687.42	\$
	S1-D47 Assembly and Erection of Suspension To	,												
	Total Tower Weight With Guys and Ext. (lb) =	26735 Total Tower Height(ft) =	141	Section Weight (lb) =	25693							-		
	Site Preparation	Site Preparation	each	0		2.00	675.1 2			0				
	Haul	Hauling	each	0		10.82	441.04			0				
	Setup Blocks	Blocking Crew	each	0		2.00	281.84			0				
	Assemble Tower	Lattice Assembly	each	0		44.04	1,183.92			0				
	Install Guy Strand	Guy Install	each	0		3.00	1,258.65		<u> </u>	0	•			
	Helicopter Set	HL Helicopter	each	0		0.00	21,899.72		\$ -	0				
	Crane Set	Y- Tower Erection	each	0	40	3.50	1,482.09			0				
	Plumb Tower haul Insulators and Travellers	Tower Plumb	each	0		2.00	913.00 636.64			0				
	Hang Travellers	Haul Travellers&Glass	each each	0		1.00	1,444.07			0				
	Tie -in	Hang Travellers	each	0		2.00				0		-		
- 1	116 -111	Tie -in	each	0		2.00	- 9		\$ -	0		-		
l	Tota	al Cost = \$ 2.71	0 per pound				-	\$ 73,687.42	1		\$ -			
	Tota	11 OOSt = \$\psi\$ 2.71	o per pourid	' 1				Ψ 10,001.42	Ψ		Ψ -			
	S1-D48 Assembly and Erection of Suspension	Tower Type "A4 + 12" as per	Total struc	ture count:	0	EA			\$ -		\$ 73,887.65	\$ -	\$ 73,887.65	s
									T		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	+ 10,001100	· •
	S1-D48 Assembly and Erection of Suspension To		05573-4622-4	I3DD-0056										
	S1-D48 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) =		05573-4622-4 146	Section Weight (lb) =	25783									
_		wer Type "A4 + 12" as per dwg. 5			25783	2.00	675.12	\$ 1,350.24	\$ -	l 0l	\$ -]		
	Total Tower Weight With Guys and Ext. (lb) =	ower Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) =	146	Section Weight (lb) =	2	2.00				0	\$ - \$ -]		
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation	ower Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) =	146 each	Section Weight (lb) =	2		675.12 S 441.04 S 281.84 S	\$ 4,789.94	\$ -	0 0	\$ -			
-	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling	146 each each	Section Weight (lb) = 0	2 1 3	10.86	441.04	\$ 4,789.94 \$ 563.68	\$ - \$ -	0	\$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	146 each each	Section Weight (lb) = 0 0 0	2 1 3 4	10.86	441.04 S 281.84 S	\$ 4,789.94 \$ 563.68	\$ - \$ - \$ -	0	\$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each	Section Weight (lb) = 0 0 0 0 0 0	2 1 3 4 39	10.86 2.00 44.20	441.04 S 281.84 S 1,183.92 S	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ -	\$ - \$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each	Section Weight (Ib) = 0 0 0 0 0 0 0	2 1 3 4 39 27	10.86 2.00 44.20 3.00	441.04 S 281.84 S 1,183.92 S 1,258.65 S	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ -	\$ - \$ - \$ - \$ - \$ -	0 0 0	\$ - \$ - \$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	146 each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40	10.86 2.00 44.20 3.00 0.00	441.04 281.84 1,183.92 1,258.65 21,899.72	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ - \$ 5,187.33	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40	10.86 2.00 44.20 3.00 0.00 3.50	441.04 281.84 1,183.92 1,258.65 21,899.72 1,482.09	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41 7	10.86 2.00 44.20 3.00 0.00 3.50 2.00	\$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41 7 8	10.86 2.00 44.20 3.00 0.00 3.50 2.00 2.00	441.04 281.84 1,183.92 1,258.65 21,899.72 1,482.09 913.00 636.64	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	wer Type "A4 + 12" as per dwg. 5 26876 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers	146 each each each each each each each each	Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 3 4 39 27 40 41 7 8	10.86 2.00 44.20 3.00 0.00 3.50 2.00 2.00 1.00	441.04 281.84 1,183.92 1,258.65 21,899.72 1,482.09 1,482.09 1,482.09 1,482.09 1,482.09 1,482.09	\$ 4,789.94 \$ 563.68 \$ 52,324.55 \$ 3,775.95 \$ - \$ 5,187.33 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 1,352.60	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			



Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Total Annotation control to the Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Standard Secretary and Exercision of Suppermisor Tower Type: "At + 1.35" as per Joseph (596773-9025-14000-0009) Sta	Newfoundland) Crew Cost Total Unit Cost	
St-D49 Assembly and Erection of Suspension Tower Type *A4 + 13.5" as per Total structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 13.5" as per Total structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 13.5" as per Total structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 13.5" as per Total structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension Tower Type *A4 + 15.5" as per Total Structure count: St-D49 Assembly and Erection of Suspension T		Materials
St-Opt Assembly and Exection of Suspension Tower Types* 14 - 13.0 ** is per days. \$50073-1422-4302-00056 The first Control of Suppension Tower Types* 15 Section For Suppension Tower Types* 16 Section For Suppension Tower Types* 16 S	Total God Child Child Chil	
Interface Volume Transport 10 27766 Interface Property 26073 1 1 1 1 1 1 1 1 1		
Store Proporation		
Half max		
Setup Blocks		
Assemble Tower		
Final Biologies Continue Co		
Holicoper Set		
Crane Set		
Fund Institute of Travellers Section of Superior Section of Section of Superior Section of Section of Superior Section of		
Hang Travellers		
Hand Traveleries		
Te -		
Total Coat		
St-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per day. 505573-4622-430D-0056 St-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per day. 505573-4622-430D-0056 State Proparation Stat		
St-D50 Assembly and Erection of Suspension Tower Type *A4 + 15" as per May 50573-4622-43D0-0056 Total cert Weetly time Care and Execution of Suspension Tower Type *A4 + 15" as per May 50573-4622-43D0-0056 Total cert Weetly time Care and Execution of Suspension Tower Type *A4 + 15" as per May 50573-4622-43D0-0056 Total cert Weetly time Care and Execution of Suspension Tower Type *A4 + 16.5" as per May 50573-4622-43D0-0056 Total cert Weetly time Care and Execution of Suspension Tower Type *A4 + 16.5" as per May 50573-4622-43D0-0056 Total cert Weetly time Care and Execution of Suspension Tower Type *A4 + 16.5" as per May 50573-4622-43D0-0056 Total cert Weetly time Care and Execution of Suspension Tower Type *A4 + 16.5" as per May 50573-4622-43D0-0056 Total Cost = \$ 2.75 per pound		
St-D5A Assembly and Erection of Suspension Tower Type "A4 + 15" as per dwg, 505873-4822-430D-0056 Tower larger Weight With Copy and Erection of Suspension Tower Type "A4 + 16.5" as per dwg, 505873-4822-430D-0056 Tower larger Weight With Copy and Erection of Suspension Tower Type "A4 + 16.5" as per dwg files		
Total Traver Warger With Chips and Erin (16) = 28657 Total Traver Heager(16) = 27463 Section Weight (16) = 2 2.00 S 675.78 S 1.350.24 S - 0 S - 1	e "A4 + 15" as per Total structure count: 0 EA \$ - \$ 77,609.01 \$ - \$ 77,609.01 \$	
Site Preparation Ste Preparation Ste Preparation Step Broads S	v4 + 15" as per dwg. 505573-4622-43DD-0056	
Haul	Total Tower Height(ft) = 156 Section Weight (lb) = 27463	
Setup Blocks	Site Preparation each 0 2 2.00 \$ 675.12 \$ 1,350.24 \$ - 0 \$ -	
Assemble Tower Land Sweetly Each 0 4 47.08 \$ 1.183.02 \$ 56.783.81 \$ - 0 \$ -		
Install Guy Strand		
Helicopter Set		
Crane Set		
Plumb Tower		
Paul Insulators and Travellers		
Hang Travellers		
Title		
Si		
Sti-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per St-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-43DD-0056 Total Tower Weight With Guys and Ext. (Ib) = 29296 Total Tower Height(Ib) = 28052		
S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-43DD-0056 Total Tower Weight With Guys and Ext. (ib.) = 29296 Total Tower Height(t) = 161 Section Weight (b) = 28052		
S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-43DD-0056 Total Tower Weight With Guys and Ext. (1b) = 29296 Total Tower Height(ft) = 161 Section Weight (1b) = 28052 Site Preparation	\$ 2.678 per pound \$ 77,609.01 \$ - \$ -	
S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-43DD-0056 Total Tower Weight With Guys and Ext. (1b) = 29296 Total Tower Height(t) = 161 Section Weight (b) = 28052 Site Preparation		
Total Tower Weight With Guys and Ext. (ib) = 29996 Total Tower Height(ft) = 161 Section Weight (lb) = 28052		
Site Preparation Site Preparation each 0 2 2.00 \$ 675.12 \$ 1,350.24 \$ - 0 \$ - Haul Hauling each 0 1 11,82 \$ 441.04 \$ 5,211.39 \$ - 0 \$ - Setup Blocks Blocking Crew each 0 3 2.00 \$ 281.84 \$ 563.88 \$ - 0 \$ - Assemble Tower Little Assembly each 0 4 48.08 \$ 1,183.92 \$ 56,928.40 \$ - 0 \$ - Install Guy Strand each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y. Tower Fundo each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41	.4 + 10.5 as per awg. 50557 5-4022-4500-0050	
Haul Hauling each 0 1 11.82 \$ 441.04 \$ 5,211.39 - 0 \$ - Setup Blocks Blocking Crew each 0 3 2.00 \$ 281.84 \$ 563.68 \$ - 0 \$ - Assemble Tower Lattice Assembly each 0 4 48.08 \$ 1,183.92 \$ 56,928.40 \$ - 0 \$ - Install Guy Strand each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set H. Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y. Tower Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Haug Travellers Haug Travellers each 0 8		
Setup Blocks Blocking Crew each 0 3 2.00 \$ 281.84 \$ 563.68 \$ - 0 \$ - Assemble Tower Lattice Assembly each 0 4 48.08 \$ 1,183.92 \$ 56,928.40 \$ - 0 \$ - Install Guy Strand Guy Install each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set H. Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y. Tower Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf TravellersAllass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Trave		
Assemble Tower Latice Assembly each 0 4 48.08 \$ 1,183.92 \$ 56,928.40 \$ - 0 \$ - Install Guy Strand Guy Install each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set HL Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y. Tower Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf Travellers&Glass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in <td></td> <td></td>		
Install Guy Strand Guy Install each 0 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ - 0 \$ - Helicopter Set HL Helicopter each 0 27 0.00 \$ 21,899.72 \$ - \$ - 0 \$ - Crane Set Y- Tower Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Haul Travellers& each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -		
Helicopter Set H. Helicopter each 0 27 0.00 \$ 21,899.72 \$ - 0 \$ - Crane Set Y- Tower Erection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Hauf Travellers& each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -		
Crane Set Y-Tower Frection each 0 40 3.50 \$ 1,482.09 \$ 5,187.33 \$ - 0 \$ - Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Haul Travellers&Glass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -		
Plumb Tower Tower Plumb each 0 41 2.00 \$ 913.00 \$ 1,826.00 \$ - 0 \$ - haul Insulators and Travellers Haul Travellers & each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -		
haul Insulators and Travellers Hauf Travellers&Glass each 0 7 2.00 \$ 636.64 \$ 1,273.27 \$ - 0 \$ - Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -		
Hang Travellers Hang Travellers each 0 8 1.00 \$ 1,444.07 \$ - 0 \$ - Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -		
Tie -in Tie -in each 0 12 2.00 \$ 676.30 \$ 1,352.60 \$ - 0 \$ -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	each 0 \$ - \$ - 0 \$ -	
Total Cost = \$ 2.668 per pound		



V::D52	Description		Units		Harma nan								
V::D52 \$	Description				Hours per							Manhours and	
; <u>[</u>			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
; [3					_								
3	S1-D52 Assembly and Erection of Suspension Tower Type '		Total structure count:	0	EA		\$	-	\$	78,953.35	\$ -	\$ 78,953.35	\$ \$
-	S1-D52 Assembly and Erection of Suspension Tower Type "A4			2222									
-	Total Tower Weight With Guys and Ext. (lb) = 29933	Total Tower Height(ft) =	166 Section Weight (lb) =	28638	0.00	0.75.40	4.050.04			1			
	Site Preparation	Site Preparation	each 0	_		\$ 675.12 \$ \$ 441.04 \$	1,350.24 \$	-	0 \$				
L.	Haul Satur Blacks	Hauling	04011		12.06 2.00				0 \$				
	Setup Blocks Assemble Tower	Blocking Crew	each 0		49.09			-	0 \$				
	Install Guy Strand	Lattice Assembly	each 0		2.00	\$ 1,183.92 \$ \$ 1,258.65 \$			0 \$				
	Helicopter Set	Guy Install	each 0		0.00	\$ 21,899.72 \$	2,517.30 \$		0 \$	<u>-</u>			
	Crane Set	HL Helicopter	each 0		3.50	\$ 1,482.09 \$	5,187.33 \$		0 \$	-			
<u> </u>	Plumb Tower	Y- Tower Erection Tower Plumb	each 0		2.00	\$ 913.00 \$	1,826.00 \$		0 \$	-			
<u> </u>	haul Insulators and Travellers	Haul Travellers&Glass	each 0		2.00	\$ 636.64 \$	1,273.27 \$		0 \$	-			
	Hang Travellers	Haul Travellers & Glass Hang Travellers	each 0		1.00	\$ 1,444.07 \$	1,444.07 \$		0 \$	-			
<u> </u>	Tie -in	Tie -in	each 0		2.00	\$ 676.30 \$	1,352.60 \$		0 \$	_			
F	110 111	110 -111	each 0		2.00	\$ - \$		-	0 \$				
L	Total Cost =	\$ 2.615	per pound			\$	78,953.35 \$	-	-	-			
		2.0.0	Po. Poulla			4	το,σσσ.σσ ψ						
V::D53	S1-D53 Assembly and Erection of Suspension Tower Type '	'A4 + 19.5" as per	Total structure count:	0	EA		\$		\$	80,915.25	\$ -	\$ 80,915.25	\$ \$
	S1-D53 Assembly and Erection of Suspension Tower Type "A4									00,0101=0	•	¥ 30,0 10	•
	Total Tower Weight With Guys and Ext. (Ib) = 30300	Total Tower Height(ft) =	171 Section Weight (lb) =	28956									
F	Site Preparation	Site Preparation	each 0		2.00	\$ 675.12 \$	1,350.24 \$	-	0 \$	-			
<u> </u>	Haul	Hauling	each 0		12.20	\$ 441.04 \$		_	0 \$				
	Setup Blocks	Blocking Crew	each 0	3		\$ 281.84 \$		_	0 \$				
	Assemble Tower	Lattice Assembly	each 0	4	49.63	\$ 1,183.92 \$	58,762.78 \$	-	0 \$	-			
7	Install Guy Strand	Guy Install	each 0	39	3.00	\$ 1,258.65 \$		-	0 \$	-			
	Helicopter Set	HL Helicopter	each 0	27	0.00	\$ 21,899.72 \$	- \$	-	0 \$	-			
7	Crane Set	Y- Tower Erection	each 0	40	3.50	\$ 1,482.09 \$	5,187.33 \$	-	0 \$	-			
7	Plumb Tower	Tower Plumb	each 0	41	2.00	\$ 913.00 \$	1,826.00 \$	-	0 \$	-			
7	haul Insulators and Travellers	Haul Travellers&Glass	each 0	7	2.00	6 36.64 \$	1,273.27 \$	-	0 \$	-			
7	Hang Travellers	Hang Travellers	each 0	8	1.00	\$ 1,444.07 \$	1,444.07 \$	-	0 \$	-			
[Tie -in	Tie -in	each 0	12	2.00	\$ 676.30 \$	1,352.60 \$	=	0 \$	-			
			each 0			\$ - \$		-	0 \$	=			
	Total Cost =	\$ 2.654	per pound			\$	80,915.25 \$	-	\$	-			
V-H19	Assembly and Erection of Suspension Tower Type	oe "B1"	Tower Settir	ng Ratio	0.00	Helicopter	100% Cra	ane					
V::D54	S1-D54 Assembly and Erection of Suspension Tower Type '	'B1 + 0" as per dwg.	Total structure count:	0	EA		\$	-	\$	84,891.64	\$ -	\$ 84,891.64	\$
,	S1-D54 Assembly and Erection of Suspension Tower Type "B1												
-	Total Tower Weight With Guys and Ext. (lb) = 31846	Total Tower Height(ft) =	122 Section Weight (lb) =	30111									
<u> </u>	Site Preparation	Site Preparation	each 0		2.00	\$ 675.12 \$		-	0 \$				
	Haul	Hauling	each 0		12.68		-,	-	0 \$				
	Setup Blocks	Blocking Crew	each 0		2.00	\$ 281.84 \$		-	0 \$	-			
<u> </u>	Assemble Tower	Lattice Assembly	each 0	4	51.61	\$ 1,183.92 \$	61,107.20 \$	-	0 \$	-			
	Install Guy Strand	Guy Install	each 0	00	3.00	\$ 1,258.65 \$	3,775.95 \$	-	0 \$	=			
	Helicopter Set	HL Helicopter	each 0		0.00	\$ 21,899.72 \$	- \$	-	0 \$	=			
<u> </u>	Crane Set	Y- Tower Erection	each 0		4.00	\$ 1,482.09 \$	5,928.38 \$	-	0 \$				
	Plumb Tower	Tower Plumb	each 0	41	2.00	\$ 913.00 \$	1,826.00 \$	-	0 \$	-			
<u> </u>	haul Insulators and Travellers	Haul Travellers&Glass	each 0		2.00	\$ 636.64 \$	1,273.27 \$	-	0 \$	=			
<u> </u>	Hang Travellers	Hang Travellers	each 0	Ü		\$ 1,444.07 \$		-	0 \$				
Ţ	Tie -in	Tie -in	each 0		3.00	\$ 676.30 \$		-	0 \$				
Ĺ			each 0			\$ - \$	- \$	-	0 \$	-			
	Total Cost =	\$ 2.662	per pound			\$	84,891.64 \$	-	\$	-			



	NALCOR 350 kV HVdc Line Construction	ront 3 (Newfoundland)					Crew Cost				-		Total Unit Cost	
nt	L		<u> </u>	Jnits	1	Hours per				l l			Manhours and	L
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	04 0554 11 15 11 15	T T "D: :-"	T-4.1						<u> </u>		A 67.040.70	^	A 67.040.70	
	S1-D55 Assembly and Erection of Suspension		Total struct		0	EA			-		\$ 87,949.70	-	\$ 87,949.70	a
	S1-D55 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (lb) =	ower Type "B1 + 1.5" as per dwg. : 33198 Total Tower Height(ft) =		Section Weight (lb) =	31348									
ſ	Site Preparation	Site Preparation	each	O Section Weight (Ib) =		2.00	\$ 675.12	\$ 1,350.24	\$ -	0	\$ -			
ŀ	Haul	Site Preparation Hauling	each	0		13.20	\$ 441.04			0	\$ -			
	Setup Blocks	Blocking Crew	each	0		2.00	\$ 281.84			0				
	Assemble Tower	Lattice Assembly	each	0		53.73	·	\$ 63,617.17		0				
	Install Guy Strand	Guy Install	each	0		3.00		\$ 3,775.95		0				
	Helicopter Set	HL Helicopter	each	0		0.00		\$ -	\$ -	0				
	Crane Set	Y- Tower Erection	each	0		4.00	\$ 1,482.09	\$ 5,928.38	\$ -	0				
	Plumb Tower	Tower Plumb	each	0		2.00	\$ 913.00	\$ 1,826.00		0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.50	\$ 636.64	· · · · · · · · · · · · · · · · · · ·		0				
	Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07	\$ 1,444.07	\$ -	0	\$ -			
ļ	Tie -in	Tie -in	each	0		3.00	\$ 676.30			0				
			each	0			\$ -	\$ -		0				
	Tota	al Cost = \$ 2.64	14 per pound					\$ 87,949.70	\$ -		\$ -			
										_				
	S1-D56 Assembly and Erection of Suspension				0	EA			\$ -		\$ 89,423.68	-	\$ 89,423.68	\$
	S1-D56 Assembly and Erection of Suspension To													
	Total Tower Weight With Guys and Ext. (lb) =	34123 Total Tower Height(ft) =		Section Weight (lb) =								-		
	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12			0				
	Haul	Hauling	each	0		13.55	\$ 441.04			0				
	Setup Blocks	Blocking Crew	each	0		2.00	\$ 2 81.84			0				
	Assemble Tower	Lattice Assembly	each	0		55.12		\$ 65,259.16		0				
	Install Guy Strand	Guy Install	each	0		3.00	\$ 1,258.65		\$	0				
	Helicopter Set	HL Helicopter	each	0		0.00	\$ 21,899.72		*	0				
	Crane Set	Y- Tower Erection	each	0		4.00	\$ 1,482.09			0				
	Plumb Tower	Tower Plumb	each	0	• •	2.00	\$ 913.00			0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	6 36.64			0				
	Hang Travellers	Hang Travellers	each	0		1.00		\$ 1,444.07		0				
	ITio in		each	0	12	3.00	\$ 676.30	\$ 2,028.91	\$ -	0	\$ -			
	Tie -in	Tie -in												
			each	0			\$ -		\$ -	0				
				0	_		-	\$ - \$ 89,423.68			\$ - \$ -			
	Tota	al Cost = \$ 2.63	each 33 per pound				\$	\$ 89,423.68	\$ -		\$ -			
ļ	Total S1-D57 Assembly and Erection of Suspension	al Cost = \$ 2.63	each 33 per pound Total struct	ure count:	0	EA	\$	\$ 89,423.68				\$ -	\$ 92,163.42	\$
ļ	Total S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To	al Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. \$	each 33 per pound Total struct 505573-4622-4	ure count: 3DD-0002	0	EA	\$	\$ 89,423.68	\$ -		\$ -	\$ -	\$ 92,163.42	\$
	Tota S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) =	al Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. { 35476 Total Tower Height(ft) =	each 33 per pound Total struct 505573-4622-4: 137	ure count: 3DD-0002 Section Weight (lb) =	0 33394			\$ 89,423.68	\$ -		\$ - \$ 92,163.42	\$ -	\$ 92,163.42	\$
	Total S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	al Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. 4 35476 Total Tower Height(ft) = Site Preparation	each 33 per pound Total struct 505573-4622-4: 137 each	ure count: 3DD-0002 Section Weight (lb) =	33394 2	2.00	\$ 675.12	\$ 89,423.68 \$ 1,350.24	\$ - \$ -	0	\$ - \$ 92,163.42 \$ -	\$ -	\$ 92,163.42	\$
	Total S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	ral Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg . 35476 Total Tower Height(ft) = Site Preparation Hauling	each 33 per pound Total struct 505573-4622-4: 137 each each	ure count: 3DD-0002 Section Weight (lb) =	33394 2 1	2.00	\$ 675.12 \$ 441.04	\$ 89,423.68 \$ 1,350.24 \$ 6,203.78	\$ - \$ - \$ -	0 0	\$ - \$ 92,163.42 \$ - \$ -	\$ -	\$ 92,163.42	\$
	Tota S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	ral Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg . 35476 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each per pound Total struct 505573-4622-4: 137 each each each	ure count: 3DD-0002 Section Weight (lb) =	33394 2 1 3	2.00 14.07 2.00	\$ 675.12 \$ 441.04 \$ 281.84	\$ 1,350.24 \$ 6,203.78 \$ 563.68	\$ - \$ - \$ - \$ -	0 0	\$ - \$ 92,163.42 \$ - \$ - \$ -	.	\$ 92,163.42	\$
	Total S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower	ral Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg . \$ 35476	each per pound Total struct 505573-4622-4: 137 each each each each	ure count: 3DD-0002 Section Weight (lb) = 0	33394 2 1 3 4	2.00 14.07 2.00 57.24	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ 1,350.24 \$ 6,203.78 \$ 563.68 \$ 67,769.13	\$ - \$ - \$ - \$ - \$ -	0 0 0	\$ - \$ 92,163.42 \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 92,163.42	\$
	Tota S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	ral Cost = \$ 2.63 In Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg . 35476 Total Tower Height(ft) = Site Preparation Hautling Blocking Crew Lattice Assembly Guy Install	each 33 per pound Total struct 505573-4622-4: 137 each each each each each	ure count: 3DD-0002 Section Weight (lb) = 0 0	33394 2 1 3 4 39	2.00 14.07 2.00 57.24 3.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 1,350.24 \$ 6,203.78 \$ 563.68 \$ 67,769.13 \$ 3,775.95	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ 92,163.42 \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 92,163.42	\$
	S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	ral Cost = \$ 2.63 In Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg . 35476 Total Tower Height(ft) = Site Preparation Hautling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each	ure count: 3DD-0002 Section Weight (lb) = 0 0 0	33394 2 1 3 4 39 27	2.00 14.07 2.00 57.24 3.00 0.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 1,350.24 \$ 6,203.78 \$ 563.68 \$ 67,769.13 \$ 3,775.95 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0	\$ 92,163.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 92,163.42	\$
	S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	al Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per fower Type "B1 + 4.5" as per dwg. \$ 35476 Total Tower Height(ft) = Site Preparation Haulling Blocking Crew Lattice Assembly Guy Install Ht. Helicopter Y-Tower Erection	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each each each	ure count: 3DD-0002 Section Weight (lb) = 0 0 0 0	33394 2 1 3 4 39 27 40	2.00 14.07 2.00 57.24 3.00 0.00 4.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 1,350.24 \$ 6,203.78 \$ 66,203.78 \$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ 92,163.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 92,163.42	\$
	S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	ral Cost = \$ 2.63 In Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. \$ 35476 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each each each	ure count: 3DD-0002 Section Weight (lb) = 0 0 0 0 0	33394 2 1 3 4 39 27 40 41	2.00 14.07 2.00 57.24 3.00 0.00 4.00 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 1,350.24 \$ 6,203.78 \$ 663.68 \$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ 92,163.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ -	\$ 92,163.42	\$
	S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	ral Cost = \$ 2.63 In Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. \$ 35476 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each each each	ure count: 3DD-0002 Section Weight (ib) = 0 0 0 0 0 0	33394 2 1 3 4 39 27 40 41	2.00 14.07 2.00 57.24 3.00 0.00 4.00 2.00 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 1,350.24 \$ 6,203.78 \$ 653.68 \$ 67,769.13 \$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0	\$ - \$ 92,163.42 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ -	\$ 92,163.42	\$
	Tota S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	al Cost = \$ 2.63 n Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. \$ 35476 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each each each	ure count: 3DD-0002 Section Weight (ib) = 0 0 0 0 0 0 0 0 0 0 0 0 0	33394 2 1 3 4 39 27 40 41 7 8	2.00 14.07 2.00 57.24 3.00 0.00 4.00 2.00 2.00 1.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 1,350.24 \$ 6,203.78 \$ 653.68 \$ 67,769.13 \$ 3,775.95 \$ \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0	\$ - 92,163.42 \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	\$ -	\$ 92,163.42	\$
	S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	ral Cost = \$ 2.63 In Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. \$ 35476 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each each each	ure count: 3DD-0002 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33394 2 1 3 4 39 27 40 41 7 8 12	2.00 14.07 2.00 57.24 3.00 0.00 4.00 2.00 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 1,350.24 \$ 6,203.78 \$ 653.68 \$ 67,769.13 \$ 3,775.95 \$ \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0	\$ - 92,163.42 \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	\$	\$ 92,163.42	\$
	S1-D57 Assembly and Erection of Suspension S1-D57 Assembly and Erection of Suspension To Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	ral Cost = \$ 2.63 In Tower Type "B1 + 4.5" as per ower Type "B1 + 4.5" as per dwg. 5 35476 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HI. Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in	each 33 per pound Total struct 505573-4622-4: 137 each each each each each each each each	ure count: 3DD-0002 Section Weight (ib) = 0 0 0 0 0 0 0 0 0 0 0 0 0	33394 2 1 3 4 39 27 40 41 7 8 12	2.00 14.07 2.00 57.24 3.00 0.00 4.00 2.00 2.00 1.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 1,350.24 \$ 6,203.78 \$ 653.68 \$ 67,769.13 \$ 3,775.95 \$ \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0 0 0 0 0	\$ - 92,163.42 \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	\$ -	\$ 92,163.42	\$



	NALCOR 350 kV HVdc Line Construction	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
nt	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials T	Total Materials
	Doddiplion			Total	OICW 140.	unit	riodity reacc	OTHE COSE	Cubiciai	OTILLO	Onit Gost	Waterlaie	Wateriale	otal Matorialo
	S1-D58 Assembly and Erection of Suspension				0	EA			\$ -		\$ 93,257.36	-	\$ 93,257.36	\$
	S1-D58 Assembly and Erection of Suspension T				00007									
	Total Tower Weight With Guys and Ext. (lb) = Site Preparation	36086 Total Tower Height(ft) =	142 each	Section Weight (lb) =	33887 2	2.00	\$ 675.12	\$ 1,350.24	¢	0	¢	7		
	Haul	Site Preparation	each	0		2.00	\$ 675.12 \$ 441.04			0		+		
	Setup Blocks	Hauling Blocking Crew	each	0		2.00	\$ 281.84	<u> </u>		0		+		
	Assemble Tower	Blocking Crew Lattice Assembly	each	0		58.09	\$ 1,183.92	\$ 68,771.33		0		-		
	Install Guy Strand	Guy Install	each	0		3.00	\$ 1,258.65			0		†		
	Helicopter Set	HL Helicopter	each	0		0.00	\$ 21,899.72	<u> </u>	\$ -			1		
	Crane Set	Y- Tower Erection	each	0		4.00	\$ 1,482.09	<u> </u>	·	0				
	Plumb Tower	Tower Plumb	each	0		2.00	\$ 913.00		\$ -	0	\$ -	1		
	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64		\$ -	0		1		
	Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07	\$ 1,444.07	\$ -	0	\$ -			
	Tie -in	Tie -in	each	0	12	3.00	\$ 676.30	\$ 2,028.91	\$ -	0	\$ -			
			each	0			-		\$ -	0	\$ -			
	Tot	tal Cost = \$ 2.61	2 per pound					\$ 93,257. 36	\$ -		\$ -			
	S1-D59 Assembly and Erection of Suspension			ture count:	0	EA			\$ -		\$ 95,088.74	-	\$ 95,088.74	\$
	S1-D59 Assembly and Erection of Suspension T	,,			0.17.1									
	Total Tower Weight With Guys and Ext. (lb) =	37029 Total Tower Height(ft) =	147	Section Weight (lb) =	34714	0.00	0.75.40	4 050 04	•	1 0	^	7		
	Site Preparation	Site Preparation	each	0		2.00	\$ 675.12			0		1		
	Haul	Hauling	each	0		14.62	\$ 441.04			0				
	Setup Blocks Assemble Tower	Blocking Crew	each	0	-	2.00	\$ 281.84 \$ 1,183.92	\$ 563.68 \$ 70,449.12		0		-		
	Install Guy Strand	Lattice Assembly	each each	0		3.00		\$ 70,449.12		0		-		
	Helicopter Set	Guy Install	each	0		0.00	\$ 21,899.72		\$ -	0	•	_		
	Crane Set	HL Helicopter	each	0		4.00	\$ 1,482.09		<u>'</u>	0		+		
	Plumb Tower	Y- Tower Erection Tower Plumb	each	0	41	2.00	\$ 913.00			0				
	haul Insulators and Travellers	Haul Travellers&Glass	each	0		2.00	\$ 6 36.64			0		-		
	Hang Travellers	Hang Travellers	each	0		1.00	\$ 1,444.07			0		†		
	Tie -in	Tie-in	each	0			\$ 676.30			0		†		
	110 111	116-111	each	0		0.00			\$ -	0		†		
	To'	tal Cost = \$ 2.60	2 per pound					\$ 95,088.74	*		\$ -			
		•		1				, , , , , , , , , , , , , , , , , , , ,	,		•	-		
	S1-D60 Assembly and Erection of Suspension	n Tower Type "B1 + 9" as per dw	g. Total struc	ture count:	0	EA			\$ -		\$ 96,744.30	\$ -	\$ 96,744.30	\$
	S1-D60 Assembly and Erection of Suspension T	Tower Type "B1 + 9" as per dwg. 50	5573-4622-43	DD-0002										
	Total Tower Weight With Guys and Ext. (lb) =	37892 Total Tower Height(ft) =	152	Section Weight (lb) =	35462							_		
	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.12			0	\$ -			
	Haul	Hauling	each	0		14.94	\$ 441.04			0		_		
					3	2.00	\$ 281.84	•	•	0		ĺ		
	Setup Blocks	Blocking Crew	each						Φ.	0	\$ -			
	Setup Blocks Assemble Tower	Blocking Crew Lattice Assembly	each	0		60.79	\$ 1,183.92	, , , , , , , , , , , , , , , , , , , ,						
	Setup Blocks Assemble Tower Install Guy Strand		each each	0	39	3.00	\$ 1,258.65	\$ 3,775.95	\$ -	0	\$ -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Lattice Assembly	each each each	0 0	39 27	3.00 0.00	\$ 1,258.65 \$ 21,899.72	\$ 3,775.95 \$ -	\$ - \$ -	0	\$ - \$ -	1		
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection	each each each each	0 0 0	39 27 40	3.00 0.00 4.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 3,775.95 \$ - \$ 5,928.38	\$ - \$ - \$ -	0 0	\$ - \$ - \$ -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each each	0 0 0 0	39 27 40 41	3.00 0.00 4.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00	\$ - \$ - \$ - \$ -	0 0 0	\$ - \$ - \$ - \$ -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each	0 0 0 0 0	39 27 40 41 7	3.00 0.00 4.00 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 3,775.95 \$	\$ - \$ - \$ - \$ -	0 0 0 0	\$ - \$ - \$ - \$ -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each each	0 0 0 0 0 0 0	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each each	0 0 0 0 0 0 0 0 0	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			
	Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Class Hang Travellers Tie -in	each each each each each each each	0 0 0 0 0 0 0 0 0 0	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 0 0 0 0 0	\$ - \$ - \$ - \$ - \$ - \$ - \$ -			



Į	NALCOR 350 kV HVdc Line Construction	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
t				Units		Hours per							Manhours and	
Į	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
									•			•	A	
	S1-D61 Assembly and Erection of Suspension				0	EA			-		\$ 99,635.43	\$ -	\$ 99,635.43	\$
	S1-D61 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (lb) =	39313 Total Tower Height(ft) =		Section Weight (lb) =	36767									
ſ	Site Preparation	Site Preparation	each	O Section Weight (ib) =		2.00	\$ 675.12	\$ 1,350.24	- S	0	\$ -			
ŀ	Haul	Hauling	each	0		15.49	\$ 441.04			0				
ŀ	Setup Blocks	Blocking Crew	each	0	·	2.00	\$ 281.84			0				
L	Assemble Tower	Lattice Assembly	each	0		63.02		\$ 74,614.50		0				
	Install Guy Strand	Guy Install	each	0	39	3.00	<u> </u>	\$ 3,775.95	·	0				
f	Helicopter Set	HL Helicopter	each	0	27	0.00		\$ -	\$ -	0	\$ -			
	Crane Set	Y- Tower Erection	each	0	40	4.00	\$ 1,482.09	\$ 5,928.38	\$ -	0				
	Plumb Tower	Tower Plumb	each	0	41	2.00	\$ 913.00	\$ 1,826.00	\$ -	0				
Ī	haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00	\$ 636.64	\$ 1,273.27	\$ -	0				
Ī	Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07			0				
	Tie -in	Tie -in	each	0	12	3.00	\$ 676.30	\$ 2,028.91	\$ -	0				
Ī			each	0			-	\$ -		0	\$ -			
	Tot	tal Cost = \$ 2.58	per pound					\$ 99,635.43	-		\$ -			
						_								
	S1-D62 Assembly and Erection of Suspension		Total struct		11	EA			1, 117,907.68		\$ 101,627.97	\$ -	\$ 101,627.97	\$
	S1-D62 Assembly and Erection of Suspension To													
r	Total Tower Weight With Guys and Ext. (lb) =	40328 Total Tower Height(ft) =		Section Weight (lb) =	37666					1		Ī		
	Site Preparation	Site Preparation	each	11		2.00	\$ 675.12							
	Haul	Hauling	each	11		15.87	\$ 441.04							
	Setup Blocks	Blocking Crew	each	11		2.00	\$ 281.84							
	Assemble Tower	Lattice Assembly	each	11	4	64.57	\$ 1,183.92	\$ 76,439.93	\$ 840,839.24	11	% /h 4.39 9.3			
		· · · · · · · · · · · · · · · · · · ·												
	Install Guy Strand	Guy Install	each	11	39	3.00	\$ 1,258.65	\$ 3,775.95	\$ 41,535.44	11	\$ 3,775.95			
	Install Guy Strand Helicopter Set	Guy Install HL Helicopter	each each	11 11	39 27	3.00 0.00	\$ 1,258.65 \$ 21,899.72	\$ 3,775.95 \$ -	\$ 41,535.44 \$ -	11 11	\$ 3,775.95 \$ -			
•	Install Guy Strand Helicopter Set Crane Set	Guy Install HL Helicopter Y- Tower Erection	each each each	11 11 11	39 27 40	3.00 0.00 4.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09	\$ 3,775.95 \$ - \$ 5,928.38	\$ 41,535.44 \$ - \$ 65,212.14	11 11 11	\$ 3,775.95 \$ - \$ 5,928.38			
•	Install Guy Strand Helicopter Set Crane Set Plumb Tower	Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each	11 11 11 11	39 27 40 41	3.00 0.00 4.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03	11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each	11 11 11 11 11	39 27 40 41	3.00 0.00 4.00 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02	11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each	11 11 11 11 11	39 27 40 41 7	3.00 0.00 4.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74	11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each each each	11 11 11 11 11 11 11	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96	11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each each each each each each each each	11 11 11 11 11 11 11	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96	11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ -			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers Tie -in	each each each each each each each	11 11 11 11 11 11 11	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96	11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91			
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Class Hang Travellers Tie -in tal Cost = \$ 2.57	each each each each each each each each	11 11 11 11 11 11 11	39 27 40 41 7 8 12	3.00 0.00 4.00 2.00 2.00 1.00 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ - \$ 1,117,907.68	11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97		\$ 104.951.21	.
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per	each each each each each each each each	11 11 11 11 11 11 11 11	39 27 40 41 7 8	3.00 0.00 4.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96	11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ -	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per	each each each each each each each each	11 11 11 11 11 11 11 11	39 27 40 41 7 8 12	3.00 0.00 4.00 2.00 2.00 1.00 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ 3,775.95 \$	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ - \$ 1,117,907.68	11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension Total Plane Suspension Plane Suspension Plane Suspension Total Plane Suspension Plane Suspension Plane Suspension Plane Suspension Plane S	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per fower Type "B1 + 13.5" as per dwg.	each each each each each each each each	11 11 11 11 11 11 11 11 11 ture count:	39 27 40 41 7 8 12 2	3.00 0.00 4.00 2.00 2.00 1.00 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97	\$ 41,535.44 \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 1,117,907.68	11 11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) =	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) =	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 Sture count: 43DD-0002 Section Weight (lb) =	39 27 40 41 7 8 12 2 38497	3.00 0.00 4.00 2.00 2.00 1.00 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97	\$ 41,535.44 \$ - \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 1,117,907.68 \$ 209,902.42	11 11 11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 21 11 21 43DD-0002 Section Weight (lb) = 2	39 27 40 41 7 8 12 2 38497 2	3.00 0.00 4.00 2.00 2.00 1.00 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97	\$ 41,535.44 \$	11 11 11 11 11 11 11 11 11 11	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Travellers Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 21 11 21 43DD-0002 Section Weight (lb) = 2	39 27 40 41 7 8 12 2 38497 2 1	3.00 0.00 4.00 2.00 2.00 1.00 3.00 EA	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,028.91 \$ - \$ 101,627.97 \$ 1,350.24 \$ 7,151.94	\$ 41,535.44 \$	11 11 11 11 11 11 11 11 11 11 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Tratal Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 21 43DD-0002 Section Weight (lb) =	39 27 40 41 7 8 12 2 38497 2 1 3	3.00 0.00 4.00 2.00 1.00 3.00 EA	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ -	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,028.91 \$ - \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68	\$ 41,535.44 \$	11 11 11 11 11 11 11 11 11 11 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Travellers Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie - In tal Cost = \$ 2.57 In Tower Type "B1 + 13.5" as per fower Type "B1 + 13.5" as per dwg 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 21 11 21 2	39 27 40 41 7 8 12 2 38497 2 1 3 4 39	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 2,028.91 \$ - \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67	\$ 41,535.44 \$	11 11 11 11 11 11 11 11 11 11 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 3,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Tratal Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand	Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 11	39 27 40 41 7 8 12 2 38497 2 1 3 4 39 27	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99 3.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65	\$ 3,775.95 \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ -	\$ 41,535.44 \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 1,117,907.68 \$ 209,902.42 \$ 14,303.89 \$ 11,127.37 \$ 156,253.33 \$ 7,551.90 \$ -	11 11 11 11 11 11 11 11 11 2 2 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ -	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set	Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -In tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 11	39 27 40 41 7 8 12 2 38497 2 1 3 4 39 27 40	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99 3.00 0.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$ - \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,258.65 \$ 21,899.72	\$ 3,775.95 \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47	\$ 41,535.44 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 209,902.42 \$ 2,700.49 \$ 1,117,907.68 \$ 14,303.89 \$ 1,127.37 \$ 156,253.33 \$ 7,551.90 \$ 14,820.94	11 11 11 11 11 11 11 11 11 2 2 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set	Guy Install HL Helicopter Y-Tower Erection Tower Plumb Haul Travellers & Glass Hang Travellers Tie -in tal Cost = \$ 2.57 n Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y-Tower Erection	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 11	39 27 40 41 7 8 12 2 38497 2 1 1 3 4 39 27 40	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99 3.00 0.00 5.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ 41,535.44 \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 209,902.42 \$ 2,700.49 \$ 1,117,907.68 \$ 14,303.89 \$ 1,127.37 \$ 156,253.33 \$ 7,551.90 \$ 14,820.94 \$ 3,652.01 \$ 2,546.55	11 11 11 11 11 11 11 11 11 2 2 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ - \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.9 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Acilass Hang Travellers Tie - in tal Cost = \$ 2.57 In Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Flumb	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 11	39 27 40 41 7 8 12 2 38497 2 1 3 4 3 9 27 40 41 7 8	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99 3.00 0.00 5.00 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 41,535.44 \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 209,902.42 \$ 209,902.42 \$ 1,117,907.68 \$ 14,303.89 \$ 1,127.37 \$ 156,253.33 \$ 7,551.90 \$ 14,820.94 \$ 3,652.01 \$ 2,546.55 \$ 2,888.13	11 11 11 11 11 11 11 11 11 2 2 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers Acilass Hang Travellers Tie - in tal Cost = \$ 2.57 In Tower Type "B1 + 13.5" as per dwg. 41275 Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers & Glass	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 11	39 27 40 41 7 8 12 2 38497 2 1 3 4 3 9 27 40 41 7 8	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99 3.00 0.00 5.00 2.00 2.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 41,535.44 \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 1,117,907.66 \$ 209,902.42 \$ 14,303.89 \$ 1,127.37 \$ 156,253.33 \$ 7,551.90 \$ 14,820.94 \$ 3,652.01 \$ 2,546.55 \$ 2,888.13	11 11 11 11 11 11 11 11 11 2 2 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ -	\$ 104,951.21	\$
	Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers Tie -in Tot S1-D63 Assembly and Erection of Suspension S1-D63 Assembly and Erection of Suspension Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Guy Install	each each each each each each each each	11 11 11 11 11 11 11 11 11 11 11 11 11	39 27 40 41 7 8 12 2 38497 2 1 3 4 3 9 27 40 41 7 8	3.00 0.00 4.00 2.00 1.00 3.00 EA 2.00 16.22 2.00 65.99 3.00 0.00 5.00 2.00 2.00 1.00	\$ 1,258.65 \$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30 \$	\$ 3,775.95 \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 41,535.44 \$ 65,212.14 \$ 20,086.03 \$ 14,006.02 \$ 15,884.74 \$ 22,317.96 \$ 209,902.42 \$ 209,902.42 \$ 1,117,907.68 \$ 14,303.89 \$ 1,127.37 \$ 156,253.33 \$ 7,551.90 \$ 14,820.94 \$ 3,652.01 \$ 2,546.55 \$ 2,888.13 \$ 4,057.81	11 11 11 11 11 11 11 11 11 2 2 2 2 2 2	\$ 3,775.95 \$ - \$ 5,928.38 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91 \$ 101,627.97 \$ 104,951.21 \$ 1,350.24 \$ 7,151.94 \$ 563.68 \$ 78,126.67 \$ 3,775.95 \$ - \$ 7,410.47 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91	\$ -	\$ 104,951.21	\$



ال	NALCOR 350 kV HVdc Line Construction Front 3 (New	wfoundland)				Crew Cost						Total Unit Cost	
nt [Description		Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal I	Jnits	Unit Cost	Materials	Manhours and Materials	Total Materials
Ľ			1000	CICWING.	uriit	riodity Nato	Onit Cost			Onit Cost		atoridio	
	S1-D64 Assembly and Erection of Suspension Tower Type "E S1-D64 Assembly and Erection of Suspension Tower Type "B1 +		Total structure count: 5573-4622-43DD-0002	3	EA		\$	320,391.70	\$	106,797.23 \$	-	\$ 106,797.23	\$
	Total Tower Weight With Guys and Ext. (lb) = 42225	Total Tower Height(ft) =	171 Section Weight (lb) =	39331									
	Site Preparation	Site Preparation	each 3	2	2.00	\$ 675.12 \$,	4,050.73	3 \$	1,350.24			
	Haul	Hauling	each 3	1	16.57	\$ 441.04 \$		21,920.28	3 \$	7,306.76			
_	Setup Blocks	Blocking Crew	each 3	3	2.00	\$ 281.84 \$		1,691.05	3 \$	563.68			
_	Assemble Tower	Lattice Assembly	each 3	4	67.42	\$ 1,183.92 \$	79,817.87 \$	239,453.62	3 \$	79,817.87			
	Install Guy Strand	Guy Install	each 3	39	3.00	\$ 1,258.65 \$		11,327.85	3 \$	3,775.95			
_	Helicopter Set	HL Helicopter	each 3	27	0.00	\$ 21,899.72 \$		-	3 \$	-			
	Crane Set	Y- Tower Erection	each 3	40	5.00	\$ 1,482.09 \$, - ,	22,231.41	3 \$	7,410.47			
	Plumb Tower	Tower Plumb	each 3	41	2.00	\$ 913.00 \$		5,478.01	3 \$	1,826.00			
_	haul Insulators and Travellers	Haul Travellers&Glass	each 3	7	2.00	\$ 636.64 \$			3 \$	1,273.27			
_	Hang Travellers	Hang Travellers	each 3	8	1.00	\$ 1,444.07 \$			3 \$	1,444.07			
-	Tie -in	Tie -in	each 3	12	3.00	\$ 676.30 \$		6,086.72	3 \$	2,028.91			
	Total Cost -	¢ 2.505				- \$		220 201 70	3 \$	106 707 22			
	Total Cost =	\$ 2.595	per pound			7	100,797.23 \$	320,391.70	\$	106,797.23			
	S1-D65 Assembly and Erection of Suspension Tower Type "F	D1 : 16 5" ac nor	Total structure count:	5	EA		e	542,190.73	\$	108,438.15 \$	_	\$ 108.438.15	e
	S1-D65 Assembly and Erection of Suspension Tower Type "B1 +			J			Ψ	342,130.73	Ψ	100,430.13		Ψ 100,430.13	Ψ
,		Total Tower Height(ft) =	176 Section Weight (lb) =	40071									
9	Site Preparation	Site Preparation	each 5	2	2.00	\$ 675.12 \$	1,350.24 \$	6,751.22	5 \$	1,350.24			
_	Haul	Hauling	each 5	1	16.88	\$ 441.04 \$			5 \$	7,444.38			
	Setup Blocks	Blocking Crew	each 5	3	2.00	\$ 281.84 \$		2,818.42	5 \$	563.68			
	Assemble Tower	Lattice Assembly	each 5	4	68.69	\$ 1,183.92 \$		406,605.85	5 \$	81,321.17			
_	Install Guy Strand	Guy Install	each 5	39	3.00	\$ 1,258.65 \$		18,879.75	5 \$	3,775.95			
	Helicopter Set	HL Helicopter	each 5	27	0.00	\$ 21,899.72 \$		-	5 \$	-			
_	Crane Set	Y- Tower Erection	each 5	40	5.00	\$ 1,482.09 \$	7,410.47 \$	37,052.35	5 \$	7,410.47			
F	Plumb Tower	Tower Plumb	each 5	41	2.00	\$ 913.00 \$	1,826.00 \$	9,130.02	5 \$	1,826.00			
ŀ	haul Insulators and Travellers	Haul Travellers&Glass	each 5	7	2.00	6 36.64 \$	1,273.27 \$	6,366.37	5 \$	1,273.27			
ŀ	Hang Travellers	Hang Travellers	each 5	8	1.00	\$ 1,444.07 \$	1,444.07 \$	7,220.33	5 \$	1,444.07			
Ī	Tie -in	Tie -in	each 5	12	3.00	\$ 676.30 \$	2,028.91 \$	10,144.53	5 \$	2,028.91			
			each 5			\$ - \$	- \$	=	5 \$	-			
•	Total Cost =	\$ 2.588	per pound			\$	108,438.15 \$	542,190.73	\$	108,438.15			
	S1-D66 Assembly and Erection of Suspension Tower Type "B		Total structure count:	3	EA		\$	330,251.83	\$	110,083.94 \$	-	\$ 110,083.94	\$
	S1-D66 Assembly and Erection of Suspension Tower Type "B1 +			40044									
1	Total Tower Weight With Guys and Ext. (lb) = 43940	Total Tower Height(ft) =	181 Section Weight (lb) =	40814	2.00	675.40	1 250 24 6	4 050 70	م ا د	1 250 24			
_	Site Preparation Haul	Site Preparation	each 3	2	2.00 17.19	\$ 675.12 \$ 441.04 \$		4,050.73 22,747.21	3 \$	1,350.24 7,582.40			
_	Setup Blocks	Hauling	each 3	3	2.00	\$ 281.84 \$		1,691.05	3 \$	563.68			
	Assemble Tower	Blocking Crew	each 3	4	69.96	\$ 1,183.92		248,486.82	3 \$	82,828.94			
	Install Guy Strand	Lattice Assembly Guy Install	each 3	39	3.00	\$ 1,258.65		11,327.85	3 \$	3,775.95			
_	Helicopter Set	Guy Install HL Helicopter	each 3	27	0.00	\$ 21,899.72		11,327.00	3 \$	3,775.95			
	Crane Set		each 3	40	5.00	\$ 1,482.09 \$			3 \$	7,410.47			
	Plumb Tower	Y- Tower Erection Tower Plumb	each 3	41	2.00	\$ 913.00			3 \$	1,826.00			
_	haul Insulators and Travellers	Tower Plumb Haul Travellers&Glass	each 3	7	2.00	\$ 636.64 \$		3,819.82	3 \$	1,273.27			
_	Hang Travellers		each 3	8	1.00	\$ 1,444.07		,	3 \$	1,273.27			
_	Tie -in	Hang Travellers Tie -in	each 3	12	3.00	\$ 676.30			3 \$	2,028.91			
F	THE III	110 -111	each 3	12	0.00	\$ - \$		- 0,000.72	3 \$	2,020.91			
1	Total Cost =	\$ 2.581	per pound			Ψ - Ψ			\$	110,083.94			
_													



	NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
ent	Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
					CIGW NO.	unit	riodily rate	OTHE COOL		10	OTHE COOL			
	S1-D67 Assembly and Erection of Suspension			ture count:	2	EA			\$ 226,643.63	3	\$ 113,321.81	- \$	\$ 113,321.81	\$
	S1-D67 Assembly and Erection of Suspension Tov	7			10070									
1	Total Tower Weight With Guys and Ext. (lb) =	45518 Total Tower Height(ft) =	186	Section Weight (lb) =	42276	2.00	¢ 675.40	Ф 4.2F0.24	¢ 2700 4	<u> </u>	ф 4.2EO.24	7		
	Site Preparation Haul	Site Preparation	each each	2		2.00	\$ 675.12 \$ 441.04	\$ 1,350.24 \$ 7,853.95						
	Setup Blocks	Hauling	each	2		2.00	\$ 281.84	\$ 563.68				-		
	Assemble Tower	Blocking Crew Lattice Assembly	each	2		72.47	\$ 1,183.92	\$ 85,795.27						
	Install Guy Strand	Guy Install	each	2		3.00		\$ 3,775.95						
	Helicopter Set	HL Helicopter	each	2		0.00	\$ 21,899.72	\$ -	\$ -	2		1		
	Crane Set	Y-Tower Erection	each	2		5.00		\$ 7,410.47	7					
	Plumb Tower	Tower Plumb	each	2		2.00	\$ 913.00							
	haul Insulators and Travellers	Haul Travellers&Glass	each	2	7	2.00	\$ 636.64	\$ 1,273.27	\$ 2,546.5					
	Hang Travellers	Hang Travellers	each	2	8	1.00	\$ 1,444.07	\$ 1,444.07	\$ 2,888.13	3 2				
	Tie -in	Tie -in	each	2	12	3.00	\$ 676.30	\$ 2,028.91	\$ 4,057.8	1 2	\$ 2,028.91			
			each	2			\$ -	\$ -	\$ -	2	\$ -			
	Total	Cost = \$ 2.568	B per pound					\$ 113,321.81	\$ 226,643.63	3	\$ 113,321.81			
_	04 800 4 44 45 44 40 4 4	T	T-1-1-1		_				A 040 040 4		A40.440.70	•	£ 440.440.70	•
	S1-D68 Assembly and Erection of Suspension			ture count:	3	EA			\$ 349,349.1		\$ 116,449.70	-	\$ 116,449.70	\$
	S1-D68 Assembly and Erection of Suspension Tov				42040									
ı	Total Tower Weight With Guys and Ext. (lb) = Site Preparation	46377 Total Tower Height(ft) =	each	Section Weight (lb) =	43019 2	2.00	\$ 675.1 2	\$ 1,350.24	\$ 4,050.73	3 3	¢ 1.250.24	7		
	Haul	Site Preparation	each	3		18.12	\$ 441.04							
	Setup Blocks	Hauling Blocking Crew	each	3		2.00	\$ 281.84	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						
	Assemble Tower	Lattice Assembly	each	3		73.74		\$ 87,303.04						
	Install Guy Strand	Guy Install	each	3		3.00	\$ 1,258.65	· · · · · · · · · · · · · · · · · · ·						
	Helicopter Set	HL Helicopter	each	3		0.00	\$ 21,899.72	<u> </u>	\$ -	3		1		
	Crane Set	Y-Tower Erection	each	3		6.00	\$ 1,482.09		*			1		
	Plumb Tower	Tower Plumb	each	3		2.00	\$ 913.00							
	haul Insulators and Travellers	Haul Travellers&Glass	each	3	7	2.00	\$ 6 36.64							
	Hang Travellers	Hang Travellers	each	3	8	1.00		\$ 1,444.07						
	Tie -in	Tie -in	each	3	12	3.00	\$ 676.30	\$ 2,028.91	\$ 6,086.72	2 3	\$ 2,028.91			
			each	3			\$ -		\$ -	3	\$ -			
	Total	Cost = \$ 2.597	7 per pound					\$ 116,449.70	\$ 349,349.1		\$ 116,449.70			
	S1-D69 Assembly and Erection of Suspension		Total struc		4	EA			\$ 473,964.3		\$ 118,491.08	- \$	\$ 118,491.08	\$
	S1-D69 Assembly and Erection of Suspension Tov				10011									
ı	Total Tower Weight With Guys and Ext. (lb) =	47414 Total Tower Height(ft) =	196	Section Weight (lb) =	43941	1 200	C7F 40	ф 4.2E0.24	¢ 5.400.00	1 4	Φ 4.2EQ.24	1		
	Site Preparation	Site Preparation	each	4		2.00	\$ 675.12							
	Haul Setup Blocks	Hauling	each each	4		2.00	\$ 441.04 \$ 281.84	· · · · · · · · · · · · · · · · · · ·				-		
		Blocking Crew		4		75.32	\$ 1,183.92					1		
		Lagette Accounts.			4		·					1		
	Assemble Tower	Lattice Assembly	each each		39	3 00	\$ 1 258 65	\$ 3//545	וא בוון כן					
	Assemble Tower Install Guy Strand	Guy Install	each	4 4		3.00 0.00	7 1,=00.00	\$ 3,775.95 \$ -	\$ 15,103.80 \$ -			1		
	Assemble Tower Install Guy Strand Helicopter Set	Guy Install HL Helicopter	each each	4	27	0.00	\$ 21,899.72	\$ -	\$ -	4	\$ -	-		
	Assemble Tower Install Guy Strand	Guy Install	each	4 4	27 40		\$ 21,899.72 \$ 1,482.09	\$ - \$ 8,892.56	\$ - \$ 35,570.20	4 6 4	\$ - \$ 8,892.56			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set	Guy Install HL Helicopter Y- Tower Erection	each each ea c h	4 4 4	27 40	0.00 6.00	\$ 21,899.72	\$ - \$ 8,892.56 \$ 1,826.00	\$ - \$ 35,570.20 \$ 7,304.0	4 3 4 1 4	\$ - \$ 8,892.56 \$ 1,826.00			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower	Guy Install HL Helicopter Y- Tower Erection Tower Plumb	each each each each	4 4 4	27 40 41 7	0.00 6.00 2.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00	\$ - \$ 8,892.56 \$ 1,826.00 \$ 1,273.27	\$ 35,570.20 \$ 7,304.0 \$ 5,093.10	4 6 4 1 4 0 4	\$ - \$ 8,892.56 \$ 1,826.00 \$ 1,273.27			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass	each each each each each	4 4 4 4 4	27 40 41 7 8	0.00 6.00 2.00 2.00 1.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64	\$ - \$ 8,892.56 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 35,570.20 \$ 7,304.0 \$ 5,093.10 \$ 5,776.2	4 6 4 1 4 0 4 7 4	\$ - \$ 8,892.56 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07			
	Assemble Tower Install Guy Strand Helicopter Set Crane Set Plumb Tower haul Insulators and Travellers Hang Travellers	Guy Install HL Helicopter Y- Tower Erection Tower Plumb Haul Travellers&Glass Hang Travellers	each each each each each each	4 4 4 4 4 4	27 40 41 7 8 12	0.00 6.00 2.00 2.00 1.00	\$ 21,899.72 \$ 1,482.09 \$ 913.00 \$ 636.64 \$ 1,444.07 \$ 676.30	\$ - \$ 8,892.56 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07	\$ 35,570.20 \$ 7,304.0 \$ 5,093.10 \$ 5,776.2 \$ 8,115.63	4 6 4 1 4 0 4 7 4	\$ - \$ 8,892.56 \$ 1,826.00 \$ 1,273.27 \$ 1,444.07 \$ 2,028.91			



S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 505573-4622-43DD-0002 Total Tower Weight With Guys and Ext. (b) = 49130		NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
\$ 1-070 Assembly and Exection of Suppension Tower Type "81 + 24" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 24" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 24" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 24" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 24" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 24" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 25" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 27" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 27" is part of Control Structure count: \$ 1 OF Assembly and Exection of Suppension Tower Type "81 + 27" is part of Control Structure count: \$ 1 OF Assembly and Exect		Description				Crew No		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Total Materials
Section Communication Co	Ľ				10101	CICWING.	uriit	Hourry Nate	Offic COSt	Capiolai	OTITO	Offic OOSC	Materiale	Materials	. Star Materials
Total from trugents ago, or first 19. 46.53 mar Two relayers 40.53 m						3	EA			\$ 368,702.5	0	\$ 122,900.83	-	\$ 122,900.83	\$
Self-Programment	?	·													
Fluid	г	9 7 7	2 7 7		Section Weight (lb) =			075.40	*	10.50-		4 4 4 5 5 4 4	7		
Select Blocks	_				3										
According Transfer Standard	_				_				· · · · · · · · · · · · · · · · · · ·				-		
Petal Description Sect	<u> </u>	•			_				•			•	-		
February February			•	_											
Caree Set			·		3				*				+		
Putter Traveller Section Control Contr					3			,	Ψ	7			+		
Teach Teac				_	_								+		
Figure Section Supermission Total Cost Section	_				_				· · · · · · · · · · · · · · · · · · ·				1		
Time	_			_				<u> </u>					1		
Total Cost = 2,050 perpural	-	0			_								1		
St-071 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 50557-4022-450D-0002	F		red -HT				0.00						1		
St-D71 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 505873-46224-3DD-0002 Star Preparation of Suspension Tower Type "B1 + 25.5" as per dwg. 505873-46224-3DD-0002 Star Preparation of Suspension Tower Type "B1 + 27.5" as per dwg. 505873-46224-3DD-0002 Star Preparation of Suspension Tower Type "B1 + 27.5" as per dwg. 505873-46224-3DD-0002 Star Preparation of Suspension Tower Type "B1 + 27.5" as per dwg. 505873-46224-3DD-0002 Star Preparation Tower Twe Star Preparation Tower Type "B1 + 27.5" as per dwg. 505873-46224-3DD-0002 Inst Inst Weekling Twellers	L	Tota	Cost = \$ 2.650												
St-127f Assembly and Erection of Suspension Tower Type "81 + 25.5" as per day, 505574-6622-480D-0002 45424 Side Preparation 49130 total content regnit 49130 total content regnit 49130 total content regnit 49140		1000	2.000	. 1 F Poulid	ı				,,			,	•		
St-127f Assembly and Erection of Suspension Tower Type "81 + 25.5" as per day, 505574-6622-480D-0002 45424 Side Preparation 49130 total content regnit 49130 total content regnit 49130 total content regnit 49140	1 /	S1-D71 Assembly and Erection of Suspension	Tower Type "B1 + 25.5" as per	Total struc	ture count:	0	EA			\$ -		\$ 124,741.97	\$ -	\$ 124,741.97	\$
Total Town Hospity Was Goty and Else, (ii) 49130 Total Town Hospity (iii) 49130 Section May 12 S				505573-4622-	43DD-0002									,	
Haul		•				45424									
Setup Blocks	!	Site Preparation	Site Preparation	each	0	2	2.00	\$ 675.1 2	\$ 1,350.24	\$ -	0	\$ -			
Setup Blocks	ī	Haul	Hauling	each	0	1	19.13	\$ 441.04					1		
Install Guy Strand	?	Setup Blocks	Blocking Crew	each	0	3	2.00	\$ 2 81.84	\$ 563.68	\$ -					
Helicopter Set	7	Assemble Tower	Lattice Assembly	each	0	4	77.86	\$ 1,183.92	\$ 92,184.27	\$ -	0	\$ -			
Crane Set	7	nstall Guy Strand	Guy Install	each	0	39	3.00	\$ 1,258.65	\$ 3,775.95	\$ -					
Plumb Tower	7	Helicopter Set	HL Helicopter	each	0	27	0.00	\$ 21,899.72			0	\$ -			
Paul Insulators and Travellers Paul Insulators and Travellers	7	Crane Set	Y- Tower Erection	each	0	40	8.00	\$ 1,482.09	\$ 11,856.75	\$ -	0	\$ -			
Hang Travellers Hang Travell	Ţ	Plumb Tower	Tower Plumb	each	0	41		\$ 913.00							
Te -in	1	naul Insulators and Travellers	Haul Travellers&Glass	each	0	7	2.00								
Total Cost = S	Į.	Hang Travellers	Hang Travellers	each	0	8	1.00	\$ 1,444.07							
Total Cost = \$ 2.642 per pound	L-	Γie -in	Tie -in	each	0	12	3.00	\$ 676.30	\$ 2,028.91	\$ -					
2 S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43DD-0002 Total Tower Weight With Guys and Ext. (Ib.) = 49989 Total Tower Height(ft) = 211 Section Weight (b) = 46167 Site Preparation Haul Haul Blocks Blocks Blocks Blocks Blocks Page-10 16 1 19,45 8 441,04 \$ 8,576,84 \$ 137,229,50 16 \$ 1,350,24 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 8,576,84 \$ 137,229,50 16 \$ 563,68 \$ 1,856,75 \$ 1	L							\$ -	<u> </u>	,	0	\$ -			
Site Preparation Suspension Tower Type B1 + 27" as per dwg. 505573-4622-43DD-0002 Total Tower Weight With Guys and Ext. (ib.) = 49989 Total Tower Height(ft) = 211 Section Weight (b) = 46167		Tota	I Cost = \$ 2.642	2 per pound					\$ 124,741.97	\$ -		\$ -			
S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43DD-0002 Total Tower Weight With Guys and Ext. (ib.) = 49989 Total Tower Height(ft) = 211 Section Weight (b) = 46167 Site Preparation															
Total Tower Weight With Guys and Ext. (1b) = 4989 Total Tower Height(th) = 211 Section Weight (1b) = 46167						16	EA			\$ 2,022,204.3	3	\$ 126,387.77	-	\$ 126,387.77	\$
Site Preparation Bite Preparation each 16 2 2.00 \$ 675.12 \$ 1,350.24 \$ 21,603.92 16 \$ 1,350.24 Haul Hauling each 16 1 19.45 \$ 441.04 \$ 8,576.84 \$ 137,229.50 16 \$ 8,576.84 Setup Blocks Bioding Crew each 16 3 2.00 \$ 281.84 \$ 563.68 \$ 9,018.95 16 \$ 9,569.08 Assemble Tower Litico Assembly each 16 4 79.14 \$ 1,183.92 9 3,692.05 \$ 1,499.072.72 16 \$ 93,692.05 Install Guy Strand Guy Install each 16 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 Helicopter Set Ht. Heticopter each 16 27 0.00 \$ 21,899.72 - - - 16 \$ - Crane Set Y-Tower Flumb each 16 40 8.00 \$ 1,826.00 \$ 29,216.05 16 \$ 1,826.00 <	,					40407									
Haul Haufing each 16 1 19.45 \$ 441.04 \$ 8,576.84 \$ 137,229.50 16 \$ 8,576.84 \$ Setup Blocks Bedding Crew each 16 3 2.00 \$ 281.84 \$ 563.68 \$ 9,018.95 16 \$ 563.68 \$ Assemble Tower Little Assembly each 16 4 79.14 \$ 1,183.92 \$ 93,692.05 \$ 1,499,072.72 16 \$ 93,692.05 \$ Install Guy Strand Guy Install Guy Strand each 16 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 \$ Helicopter Set Helicopter Set H. Helicopter each 16 27 0.00 \$ 21,899.72 \$ - \$ - 16 \$ - \$ - \$ \$ Crane Set Y. Tower Erecton each 16 40 8.00 \$ 1,482.09 \$ 11,856.75 \$ 189,708.05 16 \$ 11,856.75 \$ Plumb Tower haul Insulators and Travellers Hauf	г		3 ()				1 200	C75.40	¢ 4.0E0.04	¢ 04.600.00	2 40	¢ 4.0E0.04	1		
Setup Blocks Blocking Crew each 16 3 2.00 \$ 281.84 \$ 563.68 \$ 9,018.95 16 \$ 563.68 Assemble Tower Latice Assembly each 16 4 79.14 \$ 1,183.92 \$ 93,692.05 \$ 1,499,072.72 16 \$ 93,692.05 Install Guy Strand 6ach 16 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 Helicopter Set 11,490.00 10 \$ 21,899.72 \$ - 16 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 \$ 60,415.19 16 \$ 1,826.00 \$ 11,856.75 \$	-					2							-		
Assemble Tower Install Guy Strand Guy Install each file						1							-		
Install Guy Strand Guy Install each 16 39 3.00 \$ 1,258.65 \$ 3,775.95 \$ 60,415.19 16 \$ 3,775.95 Helicopter Set HL Helicopter each 16 27 0.00 \$ 21,899.72 \$ - \$ - 16 \$ - Crane Set Y-Tower Exerction each 16 40 8.00 \$ 1,482.09 \$ 11,856.75 \$ 189,708.05 16 \$ 11,856.75 Plumb Tower Tower Flumb each 16 41 2.00 \$ 913.00 \$ 1,826.00 \$ 29,216.05 16 \$ 1,826.00 haul Insulators and Travellers Hauf TravellersAddras each 16 7 2.00 \$ 636.64 \$ 1,273.27 \$ 20,372.40 16 \$ 1,244.07 Hang Travellers Hang Travellers Hang Travellers 16 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ 23,105.07 16 \$ 1,444.07 Tie -in Tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16			•										-		
Helicopter Set HL Helicopter each 16 27 0.00 \$ 21,899.72 \$ - \$ - 16 \$ - Crane Set Y. Tower Election each 16 40 8.00 \$ 11,856.75 \$ 189,708.05 16 \$ 11,856.75 Plumb Tower Tower Plumb each 16 41 2.00 \$ 913.00 \$ 1,826.00 \$ 29,216.05 16 \$ 1,826.00 haul Insulators and Travellers Hauf Travellers Gollass each 16 7 2.00 \$ 636.64 \$ 1,273.27 \$ 20,372.40 16 \$ 1,273.27 Hang Travellers Hang Travellers each 16 8 1.00 \$ 1,444.07 \$ 23,105.07 16 \$ 1,444.07 Tie -in Tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ - 5	_		· · · · · · · · · · · · · · · · · · ·					·					-		
Crane Set Y. Tower Flection each 16 40 8.00 \$ 1,482.09 \$ 11,856.75 \$ 189,708.05 16 \$ 11,856.75 Plumb Tower Tower Plumb each 16 41 2.00 \$ 913.00 \$ 1,826.00 \$ 29,216.05 16 \$ 1,826.00 haul Insulators and Travellers Haul Travellers&Glass each 16 7 2.00 \$ 636.64 \$ 1,273.27 \$ 20,372.40 16 \$ 1,273.27 Hang Travellers Hang Travellers each 16 8 1.00 \$ 1,444.07 \$ 1,444.07 \$ 23,105.07 16 \$ 1,444.07 Tie -in Tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16 \$ 2,028.91 Each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ - \$ - 16 \$ - \$ - \$ - 16 \$ 5,028.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -<								<u> </u>					1		
Plumb Tower Tower Plumb each 16 41 2.00 \$ 913.00 \$ 1,826.00 \$ 29,216.05 16 \$ 1,826.00 haul Insulators and Travellers Haul Travellers&Glass each 16 7 2.00 \$ 636.64 \$ 1,273.27 \$ 20,372.40 16 \$ 1,273.27 Hang Travellers Hang Travellers each 16 8 1.00 \$ 1,444.07 \$ 23,105.07 16 \$ 1,444.07 Tie -in Tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16 \$ 2,028.91 each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16 \$ 2,028.91								,					-		
haul Insulators and Travellers Haul Travellers&Glass each 16 7 2.00 \$ 636.64 \$ 1,273.27 \$ 20,372.40 16 \$ 1,273.27 Hang Travellers Hang Travellers each 16 8 1.00 \$ 1,444.07 \$ 23,105.07 16 \$ 1,444.07 Tie -in Tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16 \$ 2,028.91 Fig. 1 each 16													1		
Hang Travellers Hang Travellers each 16 8 1.00 \$ 1,444.07 \$ 23,105.07 16 \$ 1,444.07 Tie -in Tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16 \$ 2,028.91 each 16 \$ - \$ - \$ - 16 \$ -	_												1		
Tie -in tie -in each 16 12 3.00 \$ 676.30 \$ 2,028.91 \$ 32,462.48 16 \$ 2,028.91 each 16 \$ - \$ - \$ - 16 \$ -	11							·	, ,			·	1		
each 16 \$ - \$ - 16 \$ -	T ₁	0						. ,					1		
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	NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
ent			Units		Hours per							Manhours and	
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Assembly and Erection of Medium An	gle Tower Type "B2"											
3	S1-D73 Assembly and Erection of Medium Ang	gle Tower Type "B2" Basic Body	Total structure count:	0	EA		\$	-	\$	104,852.21	\$ -	\$ 104,852.21	\$
	S1-D73 Assembly and Erection of Medium Angle			58	<u> </u>								
_	Total Tower Weight With Guys and Ext. (lb) =	38332 Total Tower Height(ft) =	131 Section Weight (lb) =	38332									
	Site Preparation	Site Preparation	each 0	2		\$ 675.12 \$		-	0 \$	-			
	Haul	Hauling	each 0		20.10	\$ 441.04 \$		-	0 \$	-			
	Setup Blocks	Blocking Crew	each 0			\$ 281.84 \$		-	0 \$	-			
L	Assemble	Lattice Assembly	each 0	-		\$ 1,183.92 \$			0 \$	-			
L	Erect Tower	Tower Topping	each 0	•		\$ 1,656.68 \$,	-	0 \$				
	haul Insulators and Travellers	Haul Travellers&Glass	each 0			\$ 636.64 \$	/	-	0 \$	-			
_	Hang Travellers	Hang Travellers	each 0	0		\$ 1,444.07 \$		-	0 \$	_			
	Tie -in	Tie -in	each 0	12	3.00	\$ 676.30 \$		-	0 \$	-			
ļ			each 0			\$ - \$		-	0 \$	_			
ļ			each 0			\$ - \$	7	-	0 \$	-			
Ĺ			each 0			\$ - \$		-	0 \$	-			
	Tota	al Cost = \$ 2.683	per pound			\$	104,852.21 \$	-	\$	-			
	S1-D74 Assembly and Erection of +4.5 m body		Total structure count:	0	EA		\$		\$	26,496.03	\$ -	\$ 26,496.03	\$
	S1-D74 Assembly and Erection of +4.5 m body e	•	, ,										
F	Total Tower Weight With Guys and Ext. (lb) =	11008 Total Tower Height(ft) =	146 Section Weight (lb) =	11008				•					
	Site Preparation	Site Preparation	each 0			\$ 675.1 2 \$		-	0 \$	=			
	Haul	Hauling	each 0		4.64	\$ 441.04 \$		-	0 \$	-			
-			each 0			\$ - \$		-	0 \$	-			
	Assemble Bottom	Lattice Assembly	each 0			\$ 1,183.92 \$		-	0 \$	-			
<u> </u>			each 0			\$ - \$		-	0 \$	-			
			each 0			\$ - \$	- \$	-	0 \$	-			
-	Set Extension	Tower Topping	each 0	6	3.19	\$ - \$ \$ 1,656. 68 \$	5,285.90 \$	-	0 \$	-			
-	Set Extension	Tower Topping	each 0 each 0	6	3.19	\$ - \$	5,285.90 \$	-	0 \$				
-	Set Extension	Tower Topping	each 0 each 0 each 0	6		\$ - \$ \$ - \$	5,285.90 \$ - \$ - \$	- - -	0 \$ 0 \$ 0 \$	- - -			
-	Set Extension	Tower Topping	each 0 each 0 each 0 each 0	6		\$ - \$ \$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$	- - -	0 \$ 0 \$ 0 \$ 0 \$	- - - -			
-			each 0 each 0 each 0 each 0 each 0	6		\$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ - \$	- - - -	0 \$ 0 \$ 0 \$	- - - -			
-			each 0 each 0 each 0 each 0	6		\$ - \$ \$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ - \$	- - -	0 \$ 0 \$ 0 \$ 0 \$	- - - -			
-	Tota	al Cost = \$ 2.40°	each 0 each 0 each 0 each 0 each 0 per pound 0	6		\$ - \$ \$ - \$ \$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
5	Tota S1-D75 Assembly and Erection of +10.5 m boo	al Cost = \$ 2.40°	each 0 each 0 each 0 each 0 each 0 per pound 0 Total structure count:	6	EA	\$ - \$ \$ - \$ \$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ - \$	- - - -	0 \$ 0 \$ 0 \$ 0 \$	- - - -	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m body S1-D75 Assembly and Erection of +10.5 m body	al Cost = \$ 2.40° Aly extension for Medium Angle extension for Medium Angle Tower	each 0 each 0 each 0 each 0 each 0 per pound 0 Total structure count: Type "B2" as per dwg. 505573	0 -4622-43DD-005	EA	\$ - \$ \$ - \$ \$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m body S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) =	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) =	each 0 each 0 each 0 each 0 each 0 each 0 each 0 each 0 Total structure count: Type "B2" as per dwg. 505573 165 Section Weight (lb) =	0 -4622-43DD-005 18294	EA	\$ - \$ \$ - \$ \$ - \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$	- - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$	- - - - -	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m body S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	al Cost = \$ 2.40° Aly extension for Medium Angle extension for Medium Angle Tower	each	0 -4622-43DD-005 18294 2	EA	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 5	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5 [Tota S1-D75 Assembly and Erection of +10.5 m body S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) =	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) =	each	0 -4622-43DD-005 18294 2	EA	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ 441.04 \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m bod S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation	each	0 -4622-43DD-005 18294 2 1	EA 8 7.71	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$		0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m body S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation	each	0 -4622-43DD-005 18294 2 1	EA	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$ \$ 1,183.92 \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m bod S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling	each	0 -4622-43DD-005 18294 2 1	EA 8 7.71	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$ \$ 1,183.92 \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$	- - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5	Tota S1-D75 Assembly and Erection of +10.5 m boc S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Assemble Bottom	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling	each	0 -4622-43DD-005 18294 2 1	EA 8 7.71 26.90	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$ \$ 1,183.92 \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$ - \$	- - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5 [Tota S1-D75 Assembly and Erection of +10.5 m bod S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling	each	0 -4622-43DD-005 18294 2 1	7.71 26.90	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ - \$ \$ 1,183.92 \$ \$ - \$ \$ 1,656.68 \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$ 9,613.11 \$	- - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5 [Tota S1-D75 Assembly and Erection of +10.5 m boc S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Assemble Bottom	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling Lattice Assembly	each	0 -4622-43DD-005 18294 2 1	EA 8 7.71 26.90 5.80	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$ \$ 1,183.92 \$ \$ - \$ \$ 1,656.68 \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$ 9,613.11 \$ - \$	- - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5 [Tota S1-D75 Assembly and Erection of +10.5 m boc S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Assemble Bottom	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling Lattice Assembly	each	0 -4622-43DD-005 18294 2 1	EA 8 7.71 26.90 5.80	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ - \$ \$ 1,183.92 \$ \$ - \$ \$ 1,656.68 \$	5,285.90 \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$ 9,613.11 \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5 [Tota S1-D75 Assembly and Erection of +10.5 m boc S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Assemble Bottom	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling Lattice Assembly	each	0 -4622-43DD-005 18294 2 1	7.71 26.90	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$ \$ 1,183.92 \$ \$ - \$ \$ 1,656.68 \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$ 9,613.11 \$ - \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$
5 [Tota S1-D75 Assembly and Erection of +10.5 m boc S1-D75 Assembly and Erection of +10.5 m body Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Assemble Bottom	al Cost = \$ 2.40° dy extension for Medium Angle extension for Medium Angle Tower 18294 Total Tower Height(ft) = Site Preparation Hauling Lattice Assembly Tower Topping	each	0 -4622-43DD-005 18294 2 1	7.71 26.90 5.80	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 441.04 \$ \$ - \$ \$ 1,183.92 \$ \$ - \$ \$ 1,656.68 \$ \$ - \$	5,285.90 \$ - \$ - \$ - \$ - \$ 26,496.03 \$ \$ 3,398.63 \$ - \$ 31,851.06 \$ - \$ 9,613.11 \$ - \$ - \$ - \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - 44,862.80	\$ -	\$ 44,862.80	\$



,	NALCOR 350 kV HVdc Line Construction Front 3	3 (Newfoundland)					Crew Cost						Total Unit Cost	
nt				Units		Hours per				l			Manhours and	
,	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	C4 D7C Accomply and Fraction of . 0 m law systemation f	ian Madium Anala Tau	Total atrus	ura aquati	0	EA		9	-	\$	1,392.99	¢	\$ 1,392.99	•
	S1-D76 Assembly and Erection of +0 m leg extension for N S1-D76 Assembly and Erection of +0 m leg extension for N							1	-	D	1,392.99	a -	ў 1,392.99	Þ
	Total Tower Weight With Guys and Ext. (Ib) = 2315			Section Weight (lb) =	579	leg			A					
	Site Preparation	Site Preparation	each	Occident Weight (ib) =	2		\$ 675.12	- 19	- 3	0 \$	-			
	Haul	Hauling	each	0		0.24	\$ 441.04	7	-	0 \$	_			
li	Setup Blocks	Blocking Crew	each	0	3	0.21	\$ 281.84			0 \$	_			
	Assemble Bottom	Lattice Assembly	each	0		0.85	\$ 1,183.92		-		_			
	Panel Bottom	Lattice Erection	each	0		0.00	\$ 1,519.02		-	0 \$	-			
	Assemble Tops	Lattice Assembly	each	0	4		\$ 1,183.92		-		-			
l	Set Leg	Tower Topping	each	0	6	0.17	\$ 1,656.68	277.90 \$	-	0 \$	-			
			each	0			\$ - \$	- 9	-	0 \$	-			
II.			each	0			\$ - \$	- 4	-	0 \$	-			
			each	0			\$ - \$	- \$	-	0 \$	-			
			each	0			\$ - \$			0 \$	-			
	Total Cost =	\$ 2	.407 per pound				\$	1,392.99	-	\$	-			
				_										
	S1-D77 Assembly and Erection of +1.5 m leg extension	n for Medium Angle To	ower Total struc	ure count:	0	EA		\$	-	\$	1,950.19	\$ -	\$ 1,950.19	\$
	S1-D77 Assembly and Erection of +1.5 m leg extension for	•	• • • • • • • • • • • • • • • • • • • •	•	•	er leg								
	Total Tower Weight With Guys and Ext. (lb) = 3241	Total Tower Height(ft		Section Weight (lb) =	810									
II.	Site Preparation	Site Preparation	each	0			\$ 675.12		<u>-</u>		-			
II.	Haul	Hauling	each	0	1	0.34	\$ 441.04 \$				-			
	Setup Blocks	Blocking Crew	each	0	3		\$ 281.84 \$		-	T	=			
	Assemble Bottom	Lattice Assembly	each	0	<u> </u>	1.19	\$ 1,183.92		-	0 \$	-			
li	Panel Bottom	Lattice Erection	each	0	ū		\$ 1,519.02		-	0 \$	-			
II.	Assemble Tops	Lattice Assembly	each	0			\$ 1,183.92		-	0 \$	-			
	Set Leg	Tower Topping	each	0	6	0.23	\$ 1,656.68		-		-			
li			each	0				- 9	-		-			
II.			each	0				- 9			-			
			each	0			\$ - 9	- 9	,	0 \$	-			
	Total Cost =	\$ 2	each	· · · · · · · · · · · · · · · · · · ·			1 2 - 2	1,950.19			-			
	Total Cost =	\$ 2	407 per pound	l		,	1	1,950.19	-	\$	=			
				ure count:	0	EA		9	-	\$	3,487.79	¢ -	\$ 3,487.79	¢
ı	S1-D78 Assembly and Fraction of ±3 m leg extension for	or Madiiim Anala Tov	Ar Intal Striic							Ψ		Ψ	φ 0,401.13	•
	S1-D78 Assembly and Erection of +3 m leg extension for N S1-D78 Assembly and Erection of +3 m leg extension for N					r lea					.,			
	S1-D78 Assembly and Erection of +3 m leg extension for M	Medium Angle Tower T	ype "B2" as per d	wg. 505573-4622	2-43 DD- 0058, per	r leg		_			., .			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796	Medium Angle Tower T Total Tower Height(ft	ype "B2" as per d		2-43DD-0058, per 1449	r leg	\$ 675. <mark>12</mark> \$	- 9		0 \$	-			
	S1-D78 Assembly and Erection of +3 m leg extension for M	Medium Angle Tower T	ype "B2" as per d = 141	wg. 505573-4622 Section Weight (lb) =	2-43DD-0058, per 1449 2		\$ 675.12 \$ \$ 441.04 \$		-	0 \$,			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 5796 Site Preparation	Medium Angle Tower T Total Tower Height(ft	ype "B2" as per d = 141 each	wg. 505573-4622 Section Weight (lb) =	2-43DD-0058, per 1449 2 1	0.61		269.19	-	0 \$	-			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling	ype "B2" as per d 141 each each	wg. 505573-4622 Section Weight (lb) = 0 0	2-43DD-0058, per 1449 2 1 3		\$ 441.04	269.19	- 5 -	0 \$	- -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew	ype "B2" as per d = 141 each each each	wg. 505573-4622 Section Weight (lb) = 0 0	2-43DD-0058, per 1449 2 1 3 4	0.61	\$ 441.04 \$ 281.84 \$	269.19 \$ - \$ 2,522.79 \$	5 - 5 - 5 -	0 \$ 0 \$ 0 \$ 0 \$	- - -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks Assemble Bottom	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew Lattice Assembly	ype "B2" as per d = 141 each each each	wg. 505573-4622 Section Weight (lb) = 0 0 0	2-43DD-0058, per 1449 2 1 3 4 5	0.61	\$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$	269.19 \$ - \$ 2,522.79 \$ - \$ - \$	5 - 5 - 5 -	0 \$ 0 \$ 0 \$ 0 \$	- - - -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	ype "B2" as per d = 141 each each each each each	wg. 505573-4622 Section Weight (lb) =	2-43DD-0058, per 1449 2 1 3 4 5	0.61	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$	269.19 \$	5 - 5 - 5 -	0 \$ 0 \$ 0 \$ 0 \$	- - - -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	ype "B2" as per d = 141 each each each each each each	wg. 505573-4622 Section Weight (lb) = 0 0 0 0 0	2-43DD-0058, per 1449 2 1 3 4 5 4	0.61	\$ 441.04 \$ 281.84 \$ \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$	269.19 \$ - \$ 2,522.79 \$ - \$ - \$ 695.81 \$	5 - 5 - 5 - 5 - 6 -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	ype "B2" as per d = 141 each each each each each each each each	wg. 505573-4622 Section Weight (lb) = 0 0 0 0 0 0	2-43DD-0058, per 1449 2 1 3 4 5 4 6	0.61	\$ 441.04 \$ 281.84 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,656.68 \$	269.19 \$ - \$ 2,522.79 \$ - \$ - \$ 695.81 \$	5 - 5 - 5 - 5 - 5 -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	ype "B2" as per d = 141 each each each each each each each each each	wg. 505573-4622 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0	2-43DD-0058, per 1449 2 1 3 4 5 4 6	0.61	\$ 441.04 \$ 281.84 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$	269.19 \$ - \$ 2,522.79 \$ - \$ - \$ 695.81 \$ - \$	5 - 5 - 5 - 5 - 5 - 5 -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
	S1-D78 Assembly and Erection of +3 m leg extension for N Total Tower Weight With Guys and Ext. (lb) = 5796 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Medium Angle Tower T Total Tower Height(ft Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	ype "B2" as per d = 141	wg. 505573-4622 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2-43DD-0058, per 1449 2 1 3 4 5 4 6	0.61	\$ 441.04 \$ 281.84 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$	269.19 \$ - \$ 2,522.79 \$ - \$ - \$ 695.81 \$ - \$ - \$ - \$	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -			



1	NALCOR 350 kV HVdc Line Construction Front 3	(INEWIOUIIGIAIIG)					Crew Cost						Total Unit Cost	
nt			L	Jnits		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
5									•	_		•	A	
	S1-D79 Assembly and Erection of +4.5 m leg extension f				0	EA EA			\$ -	\$	4,067.54	-	\$ 4,067.54	4 \$
3	S1-D79 Assembly and Erection of +4.5 m leg extension for I Total Tower Weight With Guys and Ext. (1b) = 6759	Total Tower Height(ft)		GWG. 505573-462 Section Weight (lb) =	2-43DD-0058, p 1690	erieg								
S	Site Preparation	Site Preparation	each	O	2		\$ 675.12	- 1	\$ -	0 \$	_	1		
	Haul	Hauling	each	0	1	0.71	\$ 441.04		\$ -	0 \$	-	1		
	Setup Blocks	Blocking Crew	each	0	3	0	\$ 281.84		\$ -		_			
	Assemble Bottom	Lattice Assembly	each	0	4	2.49	\$ 1,183.92	2,942.13	\$ -		-	1		
F	Panel Bottom	Lattice Erection	each	0	5		\$ 1,519.02	-	\$ -		-			
A	Assemble Tops	Lattice Assembly	each	0	4		\$ 1,183.92	-	\$ -		=			
5	Set Leg	Tower Topping	each	0	6	0.49	\$ 1,656.68	811.46	\$ -	0 \$	<u> </u>			
			each	0			\$ - 9	4	\$ -	υψ				
L			each	0			\$ - 9		\$ -	0 \$				
			each	0			\$ - 9				-			
L	Total Coat -	\$ 2.	each	0			- 9		\$ -					
	Total Cost =	\$ 2.4	.407 per pound					4,067.54	\$ -	\$	-			
	S1-D80 Assembly and Erection of +6 m leg extension for	r Medium Angle Tou	or Total struct	ure count:	0	EA			\$ -	\$	4,546.46	¢ _	\$ 4,546.46	e
	S1-D80 Assembly and Erection of +6 m leg extension for Me	edium Angle Tower T	vne "B2" as ner dv	va 505573-4622					y -	Ψ	4,540.40	-	φ 4,540.40	y y
•	Total Tower Weight With Guys and Ext. (Ib) = 7555	Total Tower Height(ft)		Section Weight (lb) =	1889	109								
		3 ()	each	0	2		\$ 675.12	-	\$ -	0 \$	-]		
5	Site Preparation	Site Preparation	each				-		·					
	Site Preparation Haul	Site Preparation Hauling	each	0	1	0.80	\$ 441.04 \$	350.90	\$ -	0 \$	-			
F		·			1 3	0.80	\$ 441.0 4 \$ 281.84	-	\$ - \$ -		-			
F	Haul	Hauling	each	0		2.78	\$ 281.84			0 \$				
F 5	Haul Setup Blocks	Hauling Blocking Crew	each each	0	3		\$ 281.84	3,288. 5 5	\$ -	0 \$	-			
 	Haul Setup Blocks Assemble Bottom	Hauling Blocking Crew Lattice Assembly	each each each	0	3 4 5 4	2.78	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$	3,288.55 5 -	\$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	-			
F	Haul Setup Blocks Assemble Bottom Panel Bottom	Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each	0 0 0 0 0	3 4 5		\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$	3,28 8.5 5 5 - 6 907.01	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - -			
F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0	3 4 5 4	2.78	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$	3,288.55 5 - 6 - 6 907.01	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0	3 4 5 4	2.78	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 - 5 - 907.01 -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0	3 4 5 4	2.78	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0	3 4 5 4	2.78	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 5 - 6 907.01 6 - 6 - 7 - 8 -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -			
F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0 0	3 4 5 4	2.78	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	5 - 3,288.55 5 5 - 907.01 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
H S F F F F F F F F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost =	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0 0 0	3 4 5 4 6	2.78	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 5 - 5 - 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	\$ -	\$ 5.394.19	a s
H S F F F F F F F F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension f	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4	each each each each each each each each	0 0 0 0 0 0 0 0 0 0	3 4 5 4 6	2.78 0.55	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 5 - 5 - 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -	\$ -	\$ 5,394.19	9 \$
H S F F F F F F F F F	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost =	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4	each each each each each each each each	0 0 0 0 0 0 0 0 0 0	3 4 5 4 6	2.78 0.55	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 5 - 5 - 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	\$ -	\$ 5,394.19	Э \$
F 7	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension for IS1-D81 Assembly and Erection of +7.5 m leg extension for Erection for Erection for Erection for Erection f	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0	3 4 5 4 6	2.78 0.55	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 6 - 6 - 6 - 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	\$ -	\$ 5,394.19	9 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension for land tower Weight With Guys and Ext. (lb) = 8964 Site Preparation Haul	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Medium Angle Tower Total Tower Height(ft)	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5 4 6 6 0 2-43DD-0058, p	2.78 0.55	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 6 - 6 - 6 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - 5,394.19	\$ -	\$ 5,394.19	9 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension of S1-D81 Assembly and Erection of +7.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 8964 Site Preparation Haul Setup Blocks	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5 4 6 6 2-43DD-0058, p 2241 2 1 3	2.78 0.55 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 6 - 6 - 6 - 6 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 5,394.19	\$	\$ 5,394.15	9 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension for land tower Weight With Guys and Ext. (Ib) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3	2.78 0.55	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,288.55 3,288.55 5 6 907.01 6 - 6 - 6 4,546.46 - 6 416.33 6 3,901.74	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 5,394.19	\$	\$ 5,394.15	9 \$
H	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension for 1 Total Tower Weight With Guys and Ext. (lb) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3 4 5	2.78 0.55 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ \$ \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ \$ 1,519.02 \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,519.02 \$ 1	3,288.55 3,288.55 5 6 907.01 6 - 6 - 6 4,546.46 - 6 4,546.46	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 5,394.19	\$ -	\$ 5,394.19	9 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension of S1-D81 Assembly and Erection of +7.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3	2.78 0.55 EA er leg 0.94 3.30	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ \$ 1,5519.02 \$ \$ \$ 1,056.68 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	3,288.55 3,288.55 5 907.01 - 5 - 6 - 4,546.46 - 4,546.46	\$ - \$ - \$ - \$ \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 5,394.19	\$	\$ 5,394.19	9 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension for 1 Total Tower Weight With Guys and Ext. (lb) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3 4 5	2.78 0.55 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ \$ 1,556.68 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,288.55 3,288.55 5 907.01 - 5 - 5 - 6 4,546.46 5 416.33 5 - 5 3,901.74 5 - 5 1,076.13	\$ - \$ - \$ - \$ \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 5,394.19	\$ -	\$ 5,394.18	9 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension of S1-D81 Assembly and Erection of +7.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3 4 5	2.78 0.55 EA er leg 0.94 3.30	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ 1	3,288.55 3,288.55 5 907.01 5 - 5 - 6 4,546.46 416.33 5 3,901.74 6 - 5 1,076.13	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,394.19	\$ -	\$ 5,394.19	3 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension of S1-D81 Assembly and Erection of +7.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3 4 5	2.78 0.55 EA er leg 0.94 3.30	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,056.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,656.68 \$ \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$	3,288.55 3,288.55 5 907.01 5 - 5 - 5 - 6 4,546.46 4,546.46 5 - 5 3,901.74 5 - 5 - 5 - 6 1,076.13 5 - - - - - - - - - - - - -	\$ - \$ - \$ - \$ \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 5,394.19	\$ -	\$ 5,394.19	3 \$
	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops Set Leg Total Cost = S1-D81 Assembly and Erection of +7.5 m leg extension of S1-D81 Assembly and Erection of +7.5 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 8964 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping \$ 2. for Medium Angle To Medium Angle Tower Total Tower Height(ft) Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2-43DD-0058, p 2241 2 1 3 4 5	2.78 0.55 EA er leg 0.94 3.30	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ 1	3,288.55 3,288.55 5 907.01 5 - 5 - 6 4,546.46 4,546.46 5 - 6 4,546.46 - 6 1,076.13 5 - 5 - 6 - 6 - 6 - 7 8 - 8 - 8 - 9 - - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - - 9 - - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - - 9 - - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - - 9 - - - - - - - - - - - - -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$	O S O	5,394.19	\$ -	\$ 5,394.19	9 \$



<u> </u>	NALCOR 350 kV HVdc Line Construction Fi	ront 3 (Newl	foundland)						Crew Cost						Total Unit Cost	
ent		•			Units		Hours per	•							Manhours and	
Г	Description				Total	Crew No.	unit		Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
					_					_						
	S1-D82 Assembly and Erection of +9 m leg extens					0	EA				\$ -	\$	7,023.84	\$ -	\$ 7,023.84	\$
5	S1-D82 Assembly and Erection of +9 m leg extensio						r leg									
г	<u> </u>		Total Tower Height(ft) =		Section Weight (lb) =	2574					_			Ī		
_	Site Preparation		Site Preparation	each	0	2	1.00	\$	675.12 \$		\$ -	0 \$	-			
	Haul		Hauling	each	0	1	1.08	\$	441.04 \$		\$ -	0 \$	-			
	Setup Blocks		Blocking Crew	each	0	3	0.70	\$	281.84 \$		\$ -		-			
_	Assemble Bottom		Lattice Assembly	each	0	4	3.79	\$	1,183.92 \$		\$ -		-			
	Panel Bottom		Lattice Erection	each	0	5		\$	1,519.02 \$		\$ -		-			
	Assemble Tops		Lattice Assembly	each	0	4	4.05	\$	1,183.92 \$		\$ -	U V	<u>-</u>			
	Set Leg	Т	Tower Topping	each	0	6	1.25	\$	1,656.68 \$	=,	\$ -	0 \$				
L				each	0			\$	- \$		\$ -	0 \$	-			
L				each	0			\$	- \$		\$ -	0 \$				
F				each	0			\$	- \$				-			
L		2 1	Φ 0.700	each	0			\$	- \$		\$ -					
	Total C	Jost =	\$ 2.729	per pound					\$	7,023.84	\$ -	\$	-			
			" - 4 "													
	Assembly and Erection of Medium Angle															
5	S1-D83 Assembly and Erection of Medium Angle	Tower Type "	C1" Basic Body	Total struct		72	EA				8,5 48,588.9	4 \$	118,730.40	\$ -	\$ 118,730.40	\$
5	S1-D83 Assembly and Erection of Medium Angle To															
_	<u> </u>	39636	Total Tower Height(ft) =		Section Weight (lb) =	39636								•		
_	Site Preparation	S	Site Preparation	each	72		2.00	\$	675.12 \$.,			1,350.24			
	Haul		Hauling	each	72	1	16.70	\$	441.04 \$		·		7,363.49			
_	Setup Blocks		Blocking Crew	each	72	3	2.00	\$	281.84 \$		\$ 40,585.2		563.68			
_	Assemble		Lattice Assembly	each	72	4	58.29	\$	1,183.92 \$				69,008.70			
_	Erect Tower	Т	Tower Topping	each	72	6	11.49	\$	1,656.68 \$	-,-			19,033.14			
	haul Insulators and Travellers		Haul Travellers&Glass	each	72	7	3.00	\$	636.64 \$.,	\$ 137,513.6		1,909.91			
	Hang Travellers		Hang Travellers	each	72	8	2.00	\$	1,444.07 \$				2,888.13			
Į	Dead-end	D	Deadends	each	72	13	12.00	\$	1,384.42 \$		\$ 1,196,142.9		16,613.10			
L				each	72			\$	- \$		\$ -		-			
L				each	72			\$	- \$		\$ -	72 \$	-			
L			<u> </u>	each	72			\$	- \$		\$ -	72 \$	-			
	Total C	Jost =	\$ 2.576	per pound					\$	118,730.40	\$ 8,548,588.9	4 \$	118,730.40			
					. /							•	00.054.50	•	A 00.054.50	•
	S1-D84 Assembly and Erection of +4.5 m body ex S1-D84 Assembly and Erection of +4.5 m body exter	xtension for IV	lealum Angle	Total struct		14	EA				\$ 326,962.9	9 \$	23,354.50	> -	\$ 23,354.50	\$
;			Ium Angle Tower Ty Total Tower Height(ft) =		er awg. 505573-4 Section Weight (lb) =	622-43DD-0004 9703										
!			= 11					<u></u>	67E 10 0	T	\$ -	1416		İ		
-	Site Preparation	s	Site Preparation	each each	14 14	2	4.09	\$	675.12 \$ 441.04 \$	1 902 52	Ψ	14 \$	1.802.53			
5				- eacn	14		4.09	4	281.84 \$	1,002.00	\$ 25,235.3	6 14 \$ 14 \$	1,802.53			
5 H	Haul .		Hauling		4.4	2			70104 3	_	\$ -		-			
S H	Haul Setup Blocks	В	Blocking Crew	each	14	3	14.07	φ		16 000 04	¢ 000 400 0	7 44 6	16 000 04			
S H S	Haul Setup Blocks Assemble Bottom	B L	Blocking Crew Lattice Assembly	each each	14	4	14.27	\$	1,183.92 \$	-,	\$ 236,499.2		16,892.81			
5 H 5 A	Haul Setup Blocks Assemble Bottom Panel Bottom	В Ц	Blocking Crew Lattice Assembly Lattice Erection	each each	14 14		14.27	\$	1,183.92 \$ 1,519.02 \$	-	\$ -	14 \$	-			
5 	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	В L L	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each	14 14 14	4 5 4		\$ \$	1,183.92 \$ 1,519.02 \$ 1,183.92 \$		\$ - \$ -	14 \$ 14 \$	- -			
5 	Haul Setup Blocks Assemble Bottom Panel Bottom	В L L	Blocking Crew Lattice Assembly Lattice Erection	each each each each each	14 14 14 14	4 5 4	2.81	\$ \$	1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	- - 4,659.17	\$ - \$ - \$ 65,228.3	14 \$ 14 \$ 5 14 \$	- - 4,659.17			
5 	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	В L L	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each	14 14 14 14 14	4 5 4		\$ \$ \$ \$	1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,185.66 \$ - \$	- - 4,659.17	\$ - \$ - \$ 65,228.3	14 \$ 14 \$ 14 \$ 5 14 \$ 14 \$	4,659.17 -			
5 	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	В L L	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	14 14 14 14 14 14	4 5 4 6		\$ \$ \$ \$	1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$	- 4,659.17 - -	\$ - \$ - \$ 65,228.3 \$ -	14 \$ 14 \$ 5 14 \$ 14 \$ 14 \$ 14 \$	4,659.17 -			
5 	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	В L L	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	14 14 14 14 14 14 14	4 5 4 6		\$ \$ \$ \$ \$ \$	1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$	- - 4,659.17 - -	\$ - \$ - \$ 65,228.3 \$ - \$ -	14 \$ 14 \$ 14 \$ 5 14 \$ 14 \$ 14 \$ 14 \$ 14 \$	- - 4,659.17 - -			
5 	Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	B L L L T	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	14 14 14 14 14 14 14 14	4 5 4 6		\$ \$ \$ \$	1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$	- 4,659.17 - - -	\$ - \$ - \$ 65,228.3 \$ - \$ - \$ -	14 \$ 14 \$ 5 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$ 14 \$	4,659.17 -			



	NALCOR 350 kV HVdc Line Construction Front 3	3 (Newfoundland)					Crew Cost						Total Unit Cost	
nent				Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	O4 DOS Assembly and Exaction of A0 5 m hadronstone	-i f Mli Al-	Total atmis	t	45	EA			¢ CE2 007 0	•	43,599.82	^	\$ 43,599.82	•
5	S1-D85 Assembly and Erection of +10.5 m body extens S1-D85 Assembly and Erection of +10.5 m body extension		Total struc		15 4622 43DD 0004				\$ 653,997.25	\$	43,599.82	-	\$ 43,599.82	\$
	Total Tower Weight With Guys and Ext. (lb) = 17769			Section Weight (lb) =	4622-43DD-0004 17769	•								
	Site Preparation	Site Preparation	each	15			\$ 675.12 \$		\$ -	15 \$	-			
	Haul	Hauling	each	15		7.48	\$ 441.04 \$	3,301.15	\$ 49,517.23		3,301.15			
	Setup Blocks	Blocking Crew	each	15		7.10	\$ 281.84 \$		\$ -	15 \$	-			
	Assemble Bottom	Lattice Assembly	each	15		26.13	\$ 1,183.92 \$				30,937.52			
	Panel Bottom	Lattice Erection	each	15		20.10	\$ 1,519.02 \$		\$ -	15 \$	-			
	Assemble Tops	Lattice Assembly	each	15			\$ 1,183.92 \$		\$ -	15 \$	-			
	Top / Assembly Tower	Tower Topping	each	15		5.65	\$ 1,656.68 \$	9,361.15	\$ 140,417.27		9,361.15			
			each	15			\$ - \$		\$ -	15 \$	-			
			each	15			\$ - \$	- /	\$ -	15 \$	-			
			each	15			\$ - \$		\$ -	15 \$	-			
			each	15			\$ - \$		\$ -	15 \$	-			
	Total Cost =	\$ 2.45	54 per pound			•	\$	43,599.82	\$ 653,997.25	\$	43,599.82			
6	S1-D86 Assembly and Erection of +0 m leg extension f				0	EA			-	\$	2,185.67	\$ -	\$ 2,185.67	\$
	S1-D86 Assembly and Erection of +0 m leg extension for N					leg								
	Total Tower Weight With Guys and Ext. (lb) = 3632	Total Tower Height(ft) =	119	Section Weight (lb) =	908									
	Site Preparation	Site Preparation	each	0	2		\$ 675.12 \$			0 \$	-			
	Haul	Hauling	each	0	<u> </u>	0.38	\$ 441.04 \$		\$	0 \$	-			
							Φ 204 04 Φ		^	Λ Λ				
	Setup Blocks	Blocking Crew	each	0			\$ 281.84 \$		-	0 \$	-			
	Assemble Bottom	Blocking Crew Lattice Assembly	each	0	4	1.34	\$ 1,183.92 \$	1,580.94	\$ -	0 \$	=			
	Assemble Bottom Panel Bottom		each each	0	5	1.34	\$ 1,183.92 \$ 1,519.02 \$	1,580.94 -	\$ - \$ -	0 \$	-			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly	each each each	0 0	4 5 4		\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$	1,580.94 - -	\$ - \$ - \$	0 \$ 0 \$ 0 \$	- - -			
	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each each each each	0 0 0	4 5 4 6	1.34	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$	1,580.94 - - 436.04	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	- - -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each	0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$	1,580.94 - - 436.04	\$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each	0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$	1,580.94 - - - 436.04 - -	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	0 0 0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - - 436.04 - -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$	1,580.94 - - - 436.04 - - -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each	0 0 0 0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - - 436.04 - -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
0.7	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost =	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0 0	4 5 4 6	0.26	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - - 436.04 - - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	•	¢ 2,050,04	·
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40	each each each each each each each each	0 0 0 0 0 0 0 0	4 5 4 6	0.26 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - - 436.04 - - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Tymer Medium Angle Tower Tymer Ty	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6	0.26 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - - 436.04 - - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Tymer Medium Angle Tower Tymer Total Tower Height(ft) =	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 0 22-43DD-0004, pe	0.26 EA	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$	1,580.94 - - 436.04 - - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	3,059.94	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (Ib) = 5085 Site Preparation	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 22-43DD-0004, pe	0.26 Lead of the control of the con	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	1,580.94 - - 436.04 - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	3,059.94	\$ -	\$ 3,059.94	\$
87	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 0 22-43DD-0004, pe	0.26 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - 436.04 - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	3,059.94	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 0 22-43DD-0004, pe 1271 2 1 3	0.26 EA er leg 0.54	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	1,580.94 - 436.04 - - - 2,185.67	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	3,059.94	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (Ib) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 0 22-43DD-0004, pe 1271 2 1 3 4	0.26 Lead of the control of the con	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$	1,580.94 436.04 2,185.67 - 236.17 - 2,213.32	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	3,059.94	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 22-43DD-0004, pe 1271 2 1 3 4 5	0.26 EA er leg 0.54	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,183.92 \$ 1,519.02	1,580.94 436.04 2,185.67 - 2,213.32 2,213.32	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,059.94	\$ -	\$ 3,059.94	\$
87	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 222-43DD-0004, pe 1271 2 1 3 4 5	0.26 EA er leg 0.54 1.87	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	1,580.94 436.04 2,185.67 - 2,213.32	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,059.94	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 0 22-43DD-0004, pe 1271 2 1 3 4 5 4 6	0.26 EA er leg 0.54	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$	1,580.94 - 436.04 2,185.67 - 236.17 - 2,213.32 - 610.45	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,059.94	\$ -	\$ 3,059.94	\$
87	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	ture count: dwg. 505573-46 Section Weight (lb) =	4 5 4 6 0 22-43DD-0004, per 1271 2 1 3 4 5 4 6	0.26 EA er leg 0.54 1.87	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,183.92 \$ 1,656.68	1,580.94 - 436.04 2,185.67 - 236.17 - 2,213.32 - 610.45	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,059.94	\$ -	\$ 3,059.94	\$
87	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 0 22-43DD-0004, per 1271 2 1 3 4 5 4 6	0.26 EA er leg 0.54 1.87	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,656.68	1,580.94 - 436.04 2,185.67 - 236.17 - 2,213.32 - 610.45	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,059.94	\$ -	\$ 3,059.94	\$
37	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D87 Assembly and Erection of +1.5 m leg extension fo Total Tower Weight With Guys and Ext. (lb) = 5085 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.40 In for Medium Angle Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	ture count: r dwg. 505573-46: Section Weight (lib) =	4 5 4 6 0 22-43DD-0004, per 1271 2 1 3 4 5 4 6	0.26 EA er leg 0.54 1.87	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,580.94 - 436.04 2,185.67 - 236.17 - 2,213.32 - 610.45	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,059.94	\$ -	\$ 3,059.94	\$



	NALCOR 350 kV HVdc Line Construction From	nt 3 (Newfoundland)					Crew Cost						Total Unit Cos	
nent				Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
•						_		_						
	S1-D88 Assembly and Erection of +3 m leg extension				68	EA			\$ 271,766.	3 \$	3,996.56	\$ -	\$ 3,996.	56 \$
	S1-D88 Assembly and Erection of +3 m leg extension f					r leg								
		41 Total Tower Height	· · · · · · · · · · · · · · · · · · ·	Section Weight (lb) =	1660	_			_		1			
	Site Preparation	Site Preparation	each	68	2		\$ 675.12		\$ -	σο φ	-			
	Haul	Hauling	each	68	1	0.70	\$ 441.04	000.10	\$ 20,975.		308.46			
	Setup Blocks	Blocking Crew	each	68	3		\$ 281.84		\$ -		-			
	Assemble Bottom	Lattice Assembly	each	68	4	2.44	\$ 1,183.92	_,	\$ 196,574.		2,890.80			
	Panel Bottom	Lattice Erection	each	68	5		, , , , , , ,	-	\$ -	00 ¥	-			
	Assemble Tops	Lattice Assembly	each	68	4		,	-	\$ -		-			
	Top / Assembly Tower	Tower Topping	each	68	6	0.48	,	797.30	\$ 54,216.		797.30			
			each	68					\$ -		-			
			each	68			<u>'</u>		\$ -	Ψ (
			each	68				-	\$ -	7.7	-			
			each	68					\$ -		-			
	Total Cos	t = \$	2.407 per pound					3,996.56	\$ 271,766.	\$	3,996.56			
	S1-D89 Assembly and Erection of +4.5 m leg extension S1-D89 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 82		er Type "C1" as per		2-43DD-0004, p 2061	er leg					·			
	Site Preparation	Site Preparation	each	24	2		\$ 675.1 2		\$ -		=			
	Haul	Hauling	each	24	1	0.87	\$ 441.04	382.80	\$ 9,187.	11 24 \$	382.80			
	Setup Blocks	Blocking Crew	each	24	3		\$ 281.84	-	\$ -	24 \$	-			
	Setup Blocks Assemble Bottom					3.03			* /	24 \$ 19 24 \$	3,587.47			
	Assemble Bottom Panel Bottom	Blocking Crew	each	24 24 24	3 4 5		\$ 1,183.92 \$ 1,519.02	-	\$ -	24 \$ 19 24 \$ 24 \$	-			
	Assemble Bottom	Blocking Crew Lattice Assembly	each each	24 24 24 24 24	3 4	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92	3,58 7.4 7 5	\$ - \$ 86,099. \$ - \$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - -			
	Assemble Bottom Panel Bottom	Blocking Crew Lattice Assembly Lattice Erection	each each each each each	24 24 24 24 24 24	3 4 5		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	3,58 7.4 7 3,58 7.4 7 5 - 5 - 6 989.45	\$ 86,099. \$ -	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$	3,587.47 -			
	Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	24 24 24 24 24 24 24	3 4 5 4	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,58 7. 47 3,58 7. 47 5 - 5 989.45	\$ - \$ 86,099. \$ - \$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$	3,587.47 - -			
	Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	24 24 24 24 24 24 24 24	3 4 5 4	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	3,58 7. 47 3,58 7. 47 5 - 5 989.45 5 -	\$ - \$ 86,099. \$ - \$ 23,746.	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - - - 989.45			
	Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	24 24 24 24 24 24 24 24 24	3 4 5 4	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 5 -	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - - 989.45			
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	24 24 24 24 24 24 24 24 24 24	3 4 5 4	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 - 5 - 5 -	\$ \$ 86,099. \$ \$ 23,746. \$ \$ \$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - - 989.45 - - -			
	Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	24 24 24 24 24 24 24 24 24 24	3 4 5 4	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 5 -	\$ \$ 86,099. \$ \$ 23,746. \$ \$ \$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - - 989.45 - -			
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	24 24 24 24 24 24 24 24 24 24	3 4 5 4 6	3.03	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 - 5 - 6 - 7 4,959.71	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - - 4,959.71			
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24	3 4 5 4 6	3.03 0.60	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 - 5 - 6 - 7 4,959.71	\$ \$ 86,099. \$ \$ 23,746. \$ \$ \$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - - 989.45 - - -	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension f	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle To or Medium Angle Tower	each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6	3.03 0.60	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 - 5 - 6 - 7 4,959.71	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - - 4,959.71	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension f Total Tower Weight With Guys and Ext. (lb) = 102	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle To or Medium Angle Tower 206 Total Tower Height	each each each each each each each each each each each each each each each Each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6 6 6 43DD-0004, pe	3.03 0.60	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ -	3,587.47 3,587.47 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 6 - 6 - 7 8 - - - - - - - - - - - - -	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - 989.45 - - - 4,959.71 6,141.77	\$ -	\$ 6,141.	77 \$
o	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension f Total Tower Weight With Guys and Ext. (1b) = 102 Site Preparation	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle To or Medium Angle Tower 206 Total Tower Height Site Preparation	each each each each each each each each each each each each each each each Each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6	3.03 0.60	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ -	3,587.47 3,587.47 5 - 6 989.45 6 - 6 - 6 - 7 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ \$ 86,099. \$ \$ 23,746. \$ \$ \$ \$ 119,033. \$ 368,505.	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - 989.45 - - - 4,959.71 6,141.77	\$ -	\$ 6,141.	77 \$
o	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension S1-D90 Assembly and Erection of +6 m leg extension f Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle To or Medium Angle Tower 206 Total Tower Height Site Preparation Hauling	each each each each each each each each	24 24 24 24 24 24 24 24 24 24 24 24 25 24 26 27 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20	3 4 5 4 6 6 43DD-0004, per 2552 2	3.03 0.60	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ 441.04	3,587.47 3,587.47 5 989.45 5 - 5 - 4,959.71	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - - 989.45 - - - 4,959.71 6,141.77	\$ -	\$ 6,141.	77 \$
o	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension S1-D90 Assembly and Erection of +6 m leg extension f Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle Tower Cor Medium Angle Tower Lattice Angle Tower Lattice Assembly Tower Topping	each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3	3.03 0.60 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 281.84	3,587.47 3,587.47 5 - 6 989.45 6 - 6 - 6 4,959.71	\$ \$ 86,099. \$ \$ 23,746. \$ \$ 119,033. \$ 368,505. \$ \$ 28,441.	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77	\$ -	\$ 6,141.	77 \$
ò	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension for the management of the man	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly	each each	24 24 24 24 24 24 24 24 24 24 24 24 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4	3.03 0.60	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,656.68	3,587.47 3,587.47 5 989.45 5 - 5 - 4,959.71	\$ \$ 86,099. \$ \$ 23,746. \$ \$ 119,033. \$ 368,505. \$ \$ 28,441. \$ \$ 266,548.	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	3,587.47 - 989.45 - - 4,959.71 6,141.77	\$ -	\$ 6,141.	77 \$
o	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle To or Medium Angle Tower Coor Medium Angle Tower Lattice Assembly Blocking Crew Lattice Assembly Lattice Erection	each each	24 24 24 24 24 24 24 24 24 24 24 24 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4 5	3.03 0.60 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	3,587.47 3,587.47 5	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77 - 474.03 - 4,442.47	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle Too Or Medium Angle Tower 206 Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4	3.03 0.60 1.07 3.75	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,183.92 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	3,587.47 3,587.47 5 - 5 989.45 - 6 6 4,959.71	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77 - 474.03 - 4,442.47 -	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle To or Medium Angle Tower Coor Medium Angle Tower Lattice Assembly Blocking Crew Lattice Assembly Lattice Erection	each each	24 24 24 24 24 24 24 24 24 24 24 24 26 26 27 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4 5	3.03 0.60 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3,587.47 3,587.47 5 - 5 989.45 - 6 6 - 7 5 7 6 - 7 6 - 7 7 - 7 8 - 7	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 37 24 \$ 38 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77 - 474.03 - 4,442.47 - - 1,225.27	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle Too Or Medium Angle Tower 206 Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4 5	3.03 0.60 1.07 3.75	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3,587.47 3,587.47 5 989.45 - 5 - 5 - 6 - 8 - 6 - 8 - 8 - - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - - 8 - 8 - 8 - - 8 - 8 - - 8 - 8 - 8 - 8 - 8	\$	24 \$ 19 24 \$ 24 \$ 24 \$ 24 \$ 33 24 \$ 24 \$ 24 \$ 24 \$ 37 24 \$ 38 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$ 24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77 - 474.03 - 4,442.47 - - 1,225.27	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle Too Or Medium Angle Tower 206 Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4 5	3.03 0.60 1.07 3.75	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1,183.92	3,587.47 3,587.47 5 989.45 5 - 5 - 6 6 - 8 - 8	\$	24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77 - 474.03 - - 4,442.47 - - 1,225.27	\$ -	\$ 6,141.	77 \$
0	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cos S1-D90 Assembly and Erection of +6 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 102 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping t = \$ on for Medium Angle Too Or Medium Angle Tower 206 Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3 4 5 4 6 6 43DD-0004, per 2552 2 1 3 4 5	3.03 0.60 1.07 3.75	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	3,587.47 3,587.47 5 989.45 5 - 5 - 6 - 6 4,959.71 5 4,442.47 6 - 6 1,225.27 6 - 6 - 6 - 6 - 6 - 7 8 - - 8 - - 8 - - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - - 8 - 8 - 8 - - - - - - - - - - - - -	\$	24 \$	- 3,587.47 - 989.45 - - - 4,959.71 6,141.77 - 474.03 - 4,442.47 - - 1,225.27	\$ -	\$ 6,141.	77 \$



INA	ALCOR 350 kV HVdc Line Construction	LIGHT 2 (INC	widuliulaliu)	<u> </u>				Crew Cost						Total Unit Cost	
ent					Units		Hours per							Manhours and	
Des	escription				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
									_				_		
	I-D91 Assembly and Erection of +7.5 m leg ex					68	_ EA			\$ 488,096.29	\$	7,177.89	\$ -	\$ 7,177.89	\$
S1-	1-D91 Assembly and Erection of +7.5 m leg exter Total Tower Weight With Guys and Ext. (lb) =	ension for Med 11928	Total Tower Height(ft) =		dwg. 5055/3-462 Section Weight (lb) =	2-43DD-0004, p 2982	er leg								
Sito	te Preparation	11920	0 ()	each	Section Weight (Ib) =	2902		\$ 675.12	- 19	¢	68 \$	_			
Hau	I		Site Preparation Hauling	each	68	1	1.26	\$ 441.04		\$ 37,671.80		554.00			
	etup Blocks		Blocking Crew	each	68	3	1.20	\$ 281.84		\$ -	68 \$	-			
	ssemble Bottom		Lattice Assembly	each	68	4	4.39		5,191.92	T		5,191.92			
	anel Bottom		Lattice Erection	each	68	5		\$ 1,519.02	-, -	\$ -	68 \$	-			
Ass	ssemble Tops	-	Lattice Assembly	each	68	4		\$ 1,183.92	- 5	\$ -	68 \$	-			
Top	op / Assembly Tower		Tower Topping	each	68	6	0.86	\$ 1,656.68	1,431.97	\$ 97,374.07		1,431.97			
				each	68			\$ - \$	- 5	\$ -	68 \$	-			
				each	68			\$ - \$	5	\$ -	68 \$	-			
				each	68			- 3	- 5	\$ -	68 \$	-			
				each	68			- 9	- 5		68 \$	-			
	Tota	al Cost =	\$ 2.407	per pound					7,177.89	\$ 488,096.29	\$	7,177.89			
							_								
	I-D92 Assembly and Erection of +9 m leg extended					68	EA			\$ 594,547.38	\$	8,743.34	\$ -	\$ 8,743.34	\$
S1-	1-D92 Assembly and Erection of +9 m leg extens		· .	•	•		r leg								
	Total Tower Weight With Guys and Ext. (lb) =	14530	Total Tower Height(ft) =		Section Weight (lb) =	3632		075.40		A	1 00 6				
0				each	68	2		\$ 675.12		\$ - \$ 45,88 7.8 1	68 \$	- 074.00			
	te Preparation		Site Preparation		<u> </u>										
Наι	aul		Hauling	each	68	1	1.53	\$ 441.04 \$	674.82			674.82			
Hau Set	aul etup Blocks		Hauling Blocking Crew	each each	68 68	3		\$ 281.84	- 5	\$ -	68 \$	-			
Hau Set Ass	aul etup Blocks ssemble Bottom		Hauling Blocking Crew Lattice Assembly	each each each	68 68 68	3 4	5.34	\$ 281.84 \$ \$ 1,183.92 \$	6 6,324. 2 5	\$ - \$ 430,048.75	68 \$ 68 \$	6,324.25			
Hau Set Ass Par	eul etup Blocks esemble Bottom enel Bottom		Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each	68 68 68 68	3 4 5		\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$	6 - 9 6 6,32 4.2 5 6 - 9	\$ 430,048.75 \$ -	68 \$ 68 \$ 68 \$	6,324.25 -			
Hau Sett Ass Par Ass	eul etup Blocks esemble Bottom enel Bottom esemble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each	68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$	6 - 9 6 6,324.25 5 5 - 9 5 5 - 9 5	\$ - \$ 430,048.75 \$ - \$	68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - -			
Hau Set Ass Par Ass	eul etup Blocks esemble Bottom enel Bottom		Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each	68 68 68 68 68	3 4 5		\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68	6 - 9 6 6,324.25 5 5 - 9 5 5 1,744.28 5	\$ - \$ 430,048.75 \$ - \$ 118,610.82	68 \$ 68 \$ 68 \$ 68 \$ 68 \$	6,324.25 - - 1,744.28			
Hau Sett Ass Par Ass	eul etup Blocks esemble Bottom enel Bottom esemble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ \$	6 6,324.25 6 6,324.25 6 - 6 6 6 1,744.28 6 6 7 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7	\$ 430,048.75 \$ - \$ - \$ 118,610.82	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28			
Hau Sett Ass Par Ass	eul etup Blocks esemble Bottom enel Bottom esemble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	68 68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	6 6,324.25 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ - \$ - \$ 118,610.82 \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28 -			
Hau Sett Ass Par Ass	eul etup Blocks esemble Bottom enel Bottom esemble Tops		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	- 6 6,324.25 6 - 6 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ - \$ - \$ 118,610.82 \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28			
Hau Set Ass Par Ass	aul etup Blocks esemble Bottom anel Bottom esemble Tops op / Assembly Tower	ıl Cost =	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	68 68 68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$	- 6 6,324.25 6 - 6 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - - 1,744.28 - - -			
Hau Set Ass Par Ass	aul etup Blocks esemble Bottom anel Bottom esemble Tops op / Assembly Tower	Cost =	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	68 68 68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$	6 6,324.25 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28 - -			
Hau Set Ass Par Ass Top	aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower		Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	68 68 68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$	6 6,324.25 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - - 1,744.28 - - -			
Hau Sett Ass Par Ass Top	Tota Assembly and Erection of Medium Ang	gle Tower 1	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407	each each each each each each each each	68 68 68 68 68 68 68 68 68	3 4 5 4	5.34	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$	6 6,324.25 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - - 1,744.28 - - -	\$ -	\$ 109,893.19	s
Hau Setr Ass Par Ass Top	aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower	gle Tower T	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body	each each each each each each each each	68 68 68 68 68 68 68 68 68	3 4 5 4 6	1.05	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$	6 6,324.25 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ - \$ - \$ 118,610.82 \$ - \$ - \$ - \$ 594,547.38	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28 - - - - - 8,743.34	\$ -	\$ 109,893.19	\$
Hau Setr Ass Par Ass Top	Tota Assembly and Erection of Medium Angli- Jetup Blocks Seemble Bottom Assembly Tower Tota Assembly and Erection of Medium Angli-D93 Assembly and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Erection and Er	gle Tower T	Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body	each each each each each each each each	68 68 68 68 68 68 68 68 68	3 4 5 4 6	1.05	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$	6 6,324.25 6 6,324.25 6 - 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ - \$ - \$ 118,610.82 \$ - \$ - \$ - \$ 594,547.38	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28 - - - - - 8,743.34	\$ -	\$ 109,893.19	\$
Hau Setr Ass Parr Ass Top Ass S1- S1-	aul etup Blocks ssemble Bottom anel Bottom ssemble Tops pp / Assembly Tower Tota Assembly and Erection of Medium Angle 1-D93 Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body "C2" Basic Body as per	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 84 68	3 4 5 4 6	5.34 1.05 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68 \$	6 6,324.25 6 6,324.25 6 6 6,324.25 6 6 6 6,324.28 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ - \$ 594,547.38	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - - 1,744.28 - - - - - 8,743.34	\$ -	\$ 109,893.19	\$
Ass Top	aul etup Blocks ssemble Bottom anel Bottom ssemble Tops pp / Assembly Tower Tota Assembly and Erection of Medium Angle 1-D93 Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body 'C2" Basic Body as per Total Tower Height(ft) =	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 58 68 68	3 4 5 4 6	5.34 1.05 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68 \$	6 6,324.25 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 5 \$ 5 \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - - 8,743.34	\$ <u>-</u>	\$ 109,893.19	\$
Hau Seti Ass Par Ass Top As S1- S1- Site Hau Seti	aul etup Blocks esemble Bottom anel Bottom ssemble Tops op / Assembly Tower Tota Assembly and Erection of Medium Angle 1-D93 Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (lb.) = te Preparation aul etup Blocks	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body 'C2" Basic Body as per Total Tower Height(ft) = Site Preparation	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 68 08 08 08 08 08 08 08 08 08 08 08 08 08	3 4 5 4 6	5.34 1.05 EA 2.00 18.24 2.00	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68 \$	6 6,324.25 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 5 \$ 5 \$ 5 \$ - \$ 5 \$ - \$ 5 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ <u>-</u>	\$ 109,893.19	\$
Ass Top Ass S1- Site Hau Set	aul etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower Tota Assembly and Erection of Medium Ang 1-D93 Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (lb) = te Preparation aul etup Blocks ssemble Bottom	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body IC2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 08 08 08 00 00 00	3 4 5 4 6 6	5.34 1.05 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ 1,856.68 \$ \$ 1,856.68 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ \$ 1,183.92	6 6,324.25 6 6,324.25 6 6,324.25 6 6 7 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ -	\$ 109,893.19	\$
Ass Top Ass S1- Site Hau Set Ass Par	aul etup Blocks esemble Bottom anel Bottom seemble Tops op / Assembly Tower Tota Assembly and Erection of Medium Angle 1-D93 Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib.) = te Preparation aul etup Blocks esemble Bottom anel Bottom	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body C2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 08 08 00 00 00 00	3 4 5 4 6 6 2 33817 2 1 3 4 5	5.34 1.05 EA 2.00 18.24 2.00	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,519.02 \$ \$ 1,056.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	6 6,324.25 6 6,324.25 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 594,547.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ -	\$ 109,893.19	\$
Ass Site Hau Seti	Tota Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssembly Blocks ssembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssemble Bottom anel Bottom ssemble Tops	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body C2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 24 68 08 08 00 00 00 00 00	3 4 5 4 6 6 2 33817 2 1 3 4 5 4	5.34 1.05 EA 2.00 18.24 2.00 49.73	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$	6 6,324.25 6 6,324.25 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.34 6 6 6 6 6,324.34 6 6 6 6 6 6,324.34 6 6 6 6 6 6,324.34 6 6 6 6 6 6 6,324.24 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 594,547.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ -	\$ 109,893.19	\$
Ass Far Ass Far Ass Top Site Hau Set Ass Far Ass Far Ass Far Far Far Ass Far Far Far Far Far Far Far Far Far Far	Tota Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssemble Bottom Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks ssemble Bottom anel Bottom seemble Tops rect Tower	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body C2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	68 68 68 68 68 68 68 68 68 68	3 4 5 4 6 6 2 33817 2 1 3 4 5 4 6	5.34 1.05 EA 2.00 18.24 2.00 49.73	\$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,056.68 \$ \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,183.92 \$ 1,856.68 \$ 1,85	6 6,324.25 6 6,324.25 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 594,547.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ -	\$ 109,893.19	\$
Ass Site Hau Set Ass Par Ass Top Site Hau Set Ass Ere hau	Tota Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib.) = te Preparation aul etup Blocks seembly Blocks seembly and Tower Total Tower Weight With Guys and Ext. (Ib.) = te Preparation aul etup Blocks seemble Bottom anel Bottom seemble Tops etet Tower aul Insulators and Travellers	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body C2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 08 08 00 00 00 00 00	3 4 5 4 6 6 2 33817 2 1 3 4 5 4 6 7	5.34 1.05 1.05 EA 2.00 18.24 2.00 49.73 9.80 4.00	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ \$ 1,556.68 \$	6 6,324.25 6 6,324.25 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6,324.25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 594,547.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ -	\$ 109,893.19	\$
Ass Par Ass Top Ass S1- Site Hau Set Ass Ere hau	Tota Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks seembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib) = te Preparation aul etup Blocks seemble Bottom anel Bottom seemble Tops ect Tower aul Insulators and Travellers ang Travellers	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body 'C2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Haul Travellers&Giass Hang Travellers	each each each each each each each each	68 68 68 68 68 68 68 68 68 68	3 4 5 4 6 6 2 33817 2 1 3 4 5 4 6 7 8	5.34 1.05 2.00 18.24 2.00 49.73 9.80 4.00 2.00	\$ 281.84 \$ 1,183.92 \$ 1,056.68 \$ 1,183.92 \$ 1,056.68 \$ 1,056.68 \$ 1,056.68 \$ 1,056.68 \$ 1,056.68 \$ 1,056.68 \$ 1,183.92 \$ 1,056.68 \$ 1,183.92 \$ 1,056.68 \$ 1,183.92 \$ 1,056.68 \$ 1,183.92 \$ 1,056.68 \$ 1,444.07 \$ 1,444.07 \$ 1,444.07 \$ 1,444.07 \$ 1,444.07 \$ 1,444.07 \$ 1,656.68 \$ 1,444.07 \$ 1,444.07 \$ 1,444.07 \$ 1,656.68 \$ 1,656.68 \$	6 6,324.25 6 6,324.25 6 6,324.25 6 6 7 6 8	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 594,547.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - - 8,743.34 109,893.19 - - - - - - - - - - - - - - - - - - -	\$ -	\$ 109,893.19	\$
Ass Far Ass Top Ass S1- S1- Site Hau Set Ass Ere hau	Tota Assembly and Erection of Medium Angle Total Tower Weight With Guys and Ext. (Ib.) = te Preparation aul etup Blocks seembly Blocks seembly and Tower Total Tower Weight With Guys and Ext. (Ib.) = te Preparation aul etup Blocks seemble Bottom anel Bottom seemble Tops etet Tower aul Insulators and Travellers	gle Tower 1 gle Tower Typ Tower Type "(Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Type "C2" De "C2" Basic Body C2" Basic Body as per Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Haul Travellers&Glass	each each each each each each each each	68 68 68 68 68 68 68 68 68 68 68 08 08 00 00 00 00 00	3 4 5 4 6 6 2 33817 2 1 3 4 5 4 6 7	5.34 1.05 1.05 EA 2.00 18.24 2.00 49.73 9.80 4.00	\$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,183.92 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,183.92 \$ 1,183.9	6 6,324.25 6 6,324.25 6 6,324.25 6 6 1,744.28 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	\$ 430,048.75 \$ 430,048.75 \$ - \$ 118,610.82 \$ - \$ - \$ 594,547.38 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$ 68 \$	- 6,324.25 - 1,744.28 - - - 8,743.34 109,893.19	\$ -	\$ 109,893.19	\$



	NALCOR 350 kV HVdc Line Construction Front 3	3 (Newfoundland)				Crew Cost						Total Unit Cost	
nent			Units		Hours per							Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
									•	04.054.00		* 04.054.00	
	S1-D94 Assembly and Erection of +4.5 m body extension		Total structure count:	0	EA		\$	-	\$	24,951.80	\$ -	\$ 24,951.80	\$
	S1-D94 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (lb) = 10366		ype C2 as per dwg. 505573 119 Section Weight (lb) =										
	Site Preparation			10366		\$ 675.12 \$	I ¢		0 \$	_ 1			
	Haul	Site Preparation		0 2	4.37		- \$ 1.925.81 \$		0 \$				
	Setup Blocks	Hauling		0 3		\$ 281.84 \$	7	$\overline{}$	0 \$				
	Assemble Bottom	Blocking Crew		0 4	15.24	\$ 1,183.92 \$	18,048.16 \$	-	0 \$	-			
	Panel Bottom	Lattice Assembly		0 5	15.24	\$ 1,519.02 \$	- \$		0 \$				
	Assemble Tops	Lattice Erection		0 4		\$ 1,183.92 \$	- \$ - \$		0 \$				
	Top / Assembly Tower	Lattice Assembly Tower Topping		0 6	3.00	\$ 1,656.68 \$	4.977.83 \$		0 \$				
	Top / Assembly Tower	Tower Topping		0 0	3.00	\$ - \$	- \$		0 \$				
			I I	0		\$ - \$	- \$		0 \$				
				0		\$ - \$	-		0 \$	-			
			l l	0		\$ - \$			0 \$	-			
	Total Cost =	\$ 2407	7 per pound	<u>1</u>		\$	24,951.80 \$	-		-			
	Total Coot	Ψ 2.107	per peana			Ų.	21,001.00		Ψ				
5	S1-D95 Assembly and Erection of +10.5 m body extensi	sion for Medium Angle	Total structure count:	0	EA		\$	-	\$	-	\$ -	\$ -	\$
-	S1-D95 Assembly and Erection of +10.5 m body extension	1 for Medium Angle Tower							ų.		Ŧ	-	· ·
	Total Tower Weight With Guys and Ext. (lb) = 26024		139 Section Weight (lb) =										
	Site Preparation	Site Preparation		0 2		\$ 675.12 \$	- \$	_	0 \$	_			
	Haul	Hauling		0 1	0.00	\$ 441.04 \$		_	0 \$	_			
	Setup Blocks	Blocking Crew		0 3		\$ 281.84 \$			0 \$	_			
	Assemble Bottom	Lattice Assembly		0 4	0.00	\$ 1,183.92 \$		-	0 \$	-			
	Panel Bottom	Lattice Erection		0 5		\$ 1,519.02 \$			0 \$	-			
	Assemble Tops	Lattice Assembly	each	0 4		\$ 1,183.92 \$			0 \$	-			
	Top / Assembly Tower	Tower Topping	each	0 6	0.00	\$ 1,656.68 \$	- \$	=	0 \$	-			
			each	0		\$ - \$	- \$	=	0 \$	-			
			each	0		\$ - \$		-	0 \$	-			
			each	0		\$ - \$	- \$	-	0 \$	_			
			each	0		Φ.			0 0	-			
			Cacii	·)		\$ - \$	- \$	-	0 \$	-			
	Total Cost =	#DIV/0!	per pound	0		\$ - \$	- \$	-		-			
	Total Cost =	#DIV/0!		<u> </u>		\$							
	S1-D96 Assembly and Erection of +0 m leg extension for	for Medium Angle Tower	per pound Total structure count:	0	EA	\$			\$		\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for S1-D96 Assembly and Erection of +0 m leg extension for N	for Medium Angle Tower Medium Angle Tower Type	per pound Total structure count: "C2" as per dwg. 505573-462	0 22-43DD-0012, per	EA	\$	- \$	-	\$	-	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for NS1-D96 Assembly and Erection of +0 m leg extension for Note Total Tower Weight With Guys and Ext. (Ib) = 4189	for Medium Angle Tower Medium Angle Tower Type	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) =	0 22-43DD-0012, per 1047	EA	\$	- \$	-	\$	-	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation	for Medium Angle Tower Medium Angle Tower Type	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each	0 22-43DD-0012, per 1047 0 2	EA er leg	\$ 675.12 \$	- \$ \$	-	\$ \$ 0 \$	-	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) =	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each	0 222-43DD-0012, per 1047 0 2 0 1	EA	\$ 675.12 \$ \$ 441.04 \$	- \$ - \$ 194.55 \$	-	\$ \$ 0 \$ 0 \$	2,520.65	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each	0 222-43DD-0012, per 1047 0 2 0 1	EA er leg	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$	- \$ \$ - \$ 194.55 \$ - \$	- - - - -	\$ \$ 0 \$ 0 \$ 0 \$	- 2,520.65 - - -	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each	0 222-43DD-0012, per 1047 0 2 0 1 0 3 0 4	EA er leg	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$	- \$ \$ 194.55 \$ - \$ 1,823.24 \$	-	\$ \$ 0 \$ 0 \$ 0 \$ 0 \$	2,520.65	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each	0 222-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5	EA er leg	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$	- \$ \$ 194.55 \$ - \$ 1,823.24 \$ - \$	- - - - - - -	\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 2,520.65 - - - -	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each each each	0 222-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5 0 4	EA 0.44 1.54	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$	- \$ 194.55 \$ - \$ 1,823.24 \$ - \$ - \$	- - - - - - - -	\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 2,520.65	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	rotal structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each each each	0 22-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5 0 4 0 6	EA er leg	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,656.68 \$	- \$ \$ 194.55 \$ - \$ 1,823.24 \$ - \$ 502.86 \$	- - - - - - - - -	\$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 2,520.65	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each each each	0 222-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5 0 4 0 5	EA 0.44 1.54 1.54 1.54 1.54	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$	- \$ 194.55 \$ 1,823.24 \$ - \$ 502.86 \$ - \$	- - - - - - - - -	\$	- 2,520.65 - - - - - -	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each each each	0 222-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5 0 4 0 6	0.44 1.54 0.30	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$	- \$ 194.55 \$ 1,823.24 \$ - \$ 502.86 \$ - \$ - \$	- - - - - - - - - -	\$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 2,520.65	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	for Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	per pound Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each each each	0 22-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5 0 5 0 4 0 6	0.44 1.54	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,656.68 \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	- \$ 194.55 \$ 1,823.24 \$ - \$ 502.86 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - - - - - - -	\$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 2,520.65	\$ -	\$ 2,520.65	\$
	S1-D96 Assembly and Erection of +0 m leg extension for N Total Tower Weight With Guys and Ext. (Ib) = 4189 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	For Medium Angle Tower Medium Angle Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Execution Lattice Assembly Tower Topping	per pound Total structure count: "C2" as per dwg. 505573-462 104 Section Weight (lb) = each each each each each each each each	0 222-43DD-0012, per 1047 0 2 0 1 0 3 0 4 0 5 0 4 0 6	0.44 1.54	\$ 675.12 \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$	- \$ 194.55 \$ 1,823.24 \$ - \$ 502.86 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - - -	\$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 2,520.65	\$ <u>-</u>	\$ 2,520.65	\$



	NALCOR 350 kV HVdc Line Construction From	i <mark>t 3 (Newfoundlan</mark> d	d)				Crew Cost						Total Unit Cost	
nt				Units		Hours per							Manhours and	
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
						_								
	S1-D97 Assembly and Erection of +1.5 m leg extension	on for Medium Angl	le Tower Total struc	ture count:	0	EA			\$ -	\$	3,528.91	\$ -	\$ 3,528.91	\$
	S1-D97 Assembly and Erection of +1.5 m leg extension					per leg								
	Total Tower Weight With Guys and Ext. (lb) = 586		- · · · 	Section Weight (lb) =	1466		075.40	•		1 01 6		i		
	Site Preparation Haul	Site Preparation	each	0	2	0.00	4	\$ - \$ 272 37	\$ - \$	0 \$	-			
	1 1-1-1-1	Hauling	each	Ü	<u>_</u>	0.62	T	Ψ <u>=</u> :=:0:	Ψ	0 \$	-			
	Setup Blocks Assemble Bottom	Blocking Crew	each each	0		2.16		\$ - \$ 2,552.54	\$ - \$ -	0 \$	-			
	Panel Bottom	Lattice Assembly	each	0	<u>4</u> 5	2.10		\$ 2,552.54 \$ -	\$ -	0 \$	-			
	Assemble Tops	Lattice Erection	each	0	4	+		\$ - \$ -	\$ -	0 \$	-			
	Top / Assembly Tower	Lattice Assembly Tower Topping	each	0	6	0.42	,	\$ 704.01	\$ -	0 \$				
	Top / Assembly Tower	Tower Topping	each	0	-	0.42		\$ 704.01	\$ -	0 \$	-			
			each	0					\$ -	0 \$				
			each	0				\$ -	\$ -	0 \$	-			
			each	0					\$ -	0 \$	_			
	Total Cost	t = \$	2.407 per pound					\$ 3,528.91			-			
		·		1						<u>, , , , , , , , , , , , , , , , , , , </u>				
	S1-D98 Assembly and Erection of +3 m leg extension	n for Medium Anale	Tower Total struc	ture count:	0	EA			\$ -	\$	4,916.60	\$ -	\$ 4,916.60	\$
	S1-D98 Assembly and Erection of +3 m leg extension fo	or Medium Angle Tow	er Type "C2" as per c	lwg. 505573-4622	2-43DD-0012, pe	r leg					,		•	•
	Total Tower Weight With Guys and Ext. (lb) = 817	70 Total Tower Hei	ight(ft) = 114	Section Weight (lb) =	2043	-								
	Site Preparation	Site Preparation	each	0	2		\$ 675.12		\$ -		-			
	Haul	Hauling	each	0	1	0.86	\$ 441.04	\$ 379.47	\$ -	0 \$	-			
	Setup Blocks	Blocking Crew	each	0	3		\$ 281.84	\$ -	\$ -	0 \$	=			
	Assemble Bottom	Lattice Assembly	each	0		3.00	, , ,	\$ 3,556.28	\$ -	0 \$	-			
	Panel Bottom	Lattice Erection	each	0	5		+ .,	\$ -	\$ -	0 \$	-			
	Assemble Tops	Lattice Assembly	each	0			, , , , ,	\$ -	\$	0 \$	-			
	Top / Assembly Tower	Tower Topping	each	0	6	0.59	7 .,	\$ 980.85	\$ -	0 \$	=			
			each	0					\$ -	0 \$	=			
										0 \$	-			
			each	0				\$ - <u></u>	\$ -					
			each	0			\$ -	\$ -	\$ -	0 \$	1			
	Table		each each	0			\$ -	\$ - \$ -	\$ - \$ -	0 \$	- -			
	Total Cost	t = \$	each	0			\$ -	\$ -	\$ - \$ -	0 \$	1			
		,	each each 2.407 per pound	0		EA	\$ -	\$ - \$ - \$ 4,916.60	\$ - \$ - \$ -	0 \$		¢	¢ 6 152 04	¢
	S1-D99 Assembly and Erection of +4.5 m leg extensi	ion for Medium Angl	each each 2.407 per pound le Tower Total struc	ture count:	0	EA Par leg	\$ -	\$ - \$ - \$ 4,916.60	\$ - \$ -	0 \$	- -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension	ion for Medium Angl for Medium Angle To	each each 2.407 per pound le Tower Total struc ower Type "C2" as per	0 0 0 ture count:	0 22-43DD-0012, p		\$ -	\$ - \$ - \$ 4,916.60	\$ - \$ - \$ -	0 \$		\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1022	ion for Medium Angl for Medium Angle To 25 Total Tower Hei	each each 2.407 per pound E Tower Total struct Department	ture count:	0 22-43DD-0012, ρ 2556		\$ -	\$ - \$ - \$ 4,916.60	\$ - \$ - \$ -	0 \$ 0 \$		\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension	ion for Medium Angle To for Medium Angle To 225 Total Tower Hei	each each 2.407 per pound le Tower Total struc ower Type "C2" as per	ture count: r dwg. 505573-462 Section Weight (lb) =	0 22-43DD-0012, ρ 2556 2	per leg	\$ - \$ - \$	\$ - \$ - \$ 4,916.60	\$ - \$ - \$ -	0 \$ 0 \$	6,153.04	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 1022 Site Preparation	ion for Medium Angl for Medium Angle To 25 Total Tower Hei	each each 2.407 per pound	ture count: r dwg. 505573-462 Section Weight (lb) =	0 22-43DD-0012, p 2556 2		\$ - \$ -	\$ - \$ 4,916.60 \$ - \$ 474.90	\$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ 0 \$	- - 6,153.04	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (Ib) = 1022 Site Preparation Haul	ion for Medium Angl for Medium Angle To 225 Total Tower Hei Site Preparation	each each 2.407 per pound	ture count: r dwg. 505573-467 Section Weight (lib) =	0 22-43DD-0012, p 2556 2 1 3	per leg	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84	\$ - \$ 4,916.60 \$ - \$ 474.90	\$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$	- - 6,153.04 - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1023 Site Preparation Haul Setup Blocks	ion for Medium Angl for Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew	each each 2.407 per pound	ture count: r dwg. 505573-467 Section Weight (lib) =	0 22-43DD-0012, p 2556 2 1 3 4	1.08	\$ - \$ - \$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ - \$ 4,916.60 \$ - \$ 474.90 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ 0 \$ \$ 0 \$	- - - 6,153.04 - - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1022 Site Preparation Haul Setup Blocks Assemble Bottom	ion for Medium Angle To Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew	each each 2.407 per pound le Tower Total struc ower Type "C2" as per ight(ft) = 119 each each each each	ture count: r dwg. 505573-46; Section Weight (lib) =	0 22-43DD-0012, p 2556 2 1 3 4 5	1.08	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ 4,916.60 \$ - \$ 474.90 \$ - \$ 4,450.63	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ \$ 0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 6,153.04 - - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1022 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	ion for Medium Angle To Medium Angle To Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each 2.407 per pound le Tower Total struc ower Type "C2" as per ight(ft) = 119 each each each each each each	ture count: r dwg. 505573-46 Section Weight (lb) = 0 0 0 0 0	0 222-43DD-0012, p 2556 2 1 3 4 5	1.08	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ - \$ 4,916.60 \$ - \$ 474.90 \$ - \$ 4,450.63 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ \$ 0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 6,153.04 - - - - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (1b) = 1023 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	ion for Medium Angle for Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each 2.407 per pound le Tower Total struc ower Type "C2" as per ight(ft) = 119 each each each each each each	ture count: r dwg. 505573-46 Section Weight (lb) = 0 0 0 0 0 0	0 222-43DD-0012, p 2556 2 1 3 4 5	1.03 3.76	\$	\$ - \$ 4,916.60 \$ 474.90 \$ - \$ 4,450.63 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- - - 6,153.04 - - - - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (1b) = 1023 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	ion for Medium Angle for Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each 2.407 per pound le Tower Total struc ower Type "C2" as per ight(ft) = 119 each each each each each each each each	ture count: r dwg. 505573-467 Section Weight (lb) = 0 0 0 0 0 0 0	0 22-43DD-0012, p 2556 2 1 3 4 5 4	1.03 3.76	\$	\$ - \$ 4,916.60 \$ 474.90 \$ - \$ 4,450.63 \$ - \$ 1,227.52	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 6,153.04 - - - - - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (1b) = 1023 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	ion for Medium Angle for Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each 2.407 per pound le Tower Total struc ower Type "C2" as per ight(ft) = 119 each each each each each each each each	ture count: r dwg. 505573-462 Section Weight (lb) = 0 0 0 0 0 0 0 0	0 22-43DD-0012, p 2556 2 1 3 4 5 4	1.03 3.76	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ 4,916.60 \$ 474.90 \$ 4,450.63 \$ - \$ 1,227.52 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - 6,153.04 - - - - - - -	\$ -	\$ 6,153.04	\$
	S1-D99 Assembly and Erection of +4.5 m leg extension S1-D99 Assembly and Erection of +4.5 m leg extension Total Tower Weight With Guys and Ext. (1b) = 1023 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	ion for Medium Angle for Medium Angle To 225 Total Tower Hei Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each 2.407 per pound le Tower Total struc over Type "C2" as per ight(ft) = 119 each each each each each each each each	ture count: r dwg. 505573-467 Section Weight (lb) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 22-43DD-0012, p 2556 2 1 3 4 5 4	1.03 3.76	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ 4,916.60 \$ 474.90 \$ - \$ 4,450.63 \$ - \$ 1,227.52 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 6,153.04 - - - - - - - -	\$ -	\$ 6,153.04	\$



	NALCOR 350 kV HVdc Line Construction Fro	ont 3 (Newloundland)				Crew Cost						Total Unit Cost	
ent			Units		Hours per							Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
							_						= .
)	S1-D100 Assembly and Erection of +6 m leg extens	sion for Medium Angle Tower	Total structure count:	0	_ EA		\$	-	\$	7,852.49	\$ -	\$ 7,852.49	9 \$
	S1-D100 Assembly and Erection of +6 m leg extensio				er leg								
	9 , , ,	Total Tower Height(ft) =	124 Section Weight (lb) =	3262		075.40	1.0		1 010				
	Site Preparation	Site Preparation	each C			\$ 675.12 \$	- \$		0 \$				
	Haul	Hauling	each C		1101	\$ 441.04 \$			0 \$				
	Setup Blocks	Blocking Crew	each C			\$ 281.84 \$	- \$		0 \$				
	Assemble Bottom	Lattice Assembly	each C		4.80	\$ 1,183.92 \$		-	0 \$				
	Panel Bottom	Lattice Erection	Cuon	0		\$ 1,519.02 \$	Ψ		0 \$				
	Assemble Tops	Lattice Assembly	each C	· ·	0.05	\$ 1,183.92 \$	- \$		0 \$				
	Top / Assembly Tower	Tower Topping	odon	•	0.95	\$ 1,656.68 \$ \$ - \$	1,566.55 \$	-	0 \$	-			
			each C			Ψ Ψ		-	0 \$				
			each C			\$ - \$ \$ - \$	-	-	0 \$				
			each C			\$ - \$		-	0 \$				
	Total Co	ost = \$ 2.407	per pound			<u>т</u> - <u>т</u>		-		- -			
	Total Co	ist = φ 2.407	per pourid			Ф	1,002.49 φ	-	φ	-			
1	S1-D101 Assembly and Erection of +7.5 m leg exte	noion for Modium Anglo	Total structure count:	0	EA		¢	-	\$	9,184.46	¢	\$ 9,184.40	e e
ı	S1-D101 Assembly and Erection of +7.5 m leg extens	ension for Medium Angle tion for Medium Angle Tower Tr					2		Ą	9,104.40	a -	ə 9,104.40) \$
		5263 Total Tower Height(ft) =	ype G2 as per dwg. 505575-4 129 Section Weight (lb) =	3816	per leg								
	Site Preparation	Site Preparation	each C	_		\$ 675.12 \$	- \$	_	0 \$				
	Haul	Site Preparation Hauling	each C			\$ 441.0 4 \$		<u>-</u>	0 \$				
	riaui	Hauling	Each		1.01				υş	-			
	Satur Placks		ooch C	2		¢ 201 0/1 ¢	· ·		0 φ				
	Setup Blocks Assemble Bottom	Blocking Crew	each C			\$ 281.84 \$ \$ 1.183.92 \$			0 \$				
	Assemble Bottom	Lattice Assembly	each C	4	5.61	\$ 1,183.92 \$	6,643.31 \$		0 \$	-			
	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each C	4 5	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$	6,643.31 \$	-	0 \$	-			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each C each C each C	4 5 4	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$	6,643.31 \$ - \$ - \$	-	0 \$ 0 \$ 0 \$	-			
	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each 0 each 0 each 0 each 0 each 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$	6,643.31 \$ - \$ - \$ 1,832.28 \$	- - - -	0 \$ 0 \$ 0 \$ 0 \$	- - -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each 0 each 0 each 0 each 0 each 0 each 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$	- - - -	0 \$ 0 \$ 0 \$ 0 \$				
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each 0 each 0 each 0 each 0 each 0 each 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$	-	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	1			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each 0 each 0 each 0 each 0 each 0 each 0 each 0 each 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$ - \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	1			
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each 0 each 0 each 0 each 0 each 0 each 0 each 0 each 0 each 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each 0 each 0 each 0 each 0 each 0 each 0 each 0 each 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$ - \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407	each 0 each 0 each 0 each 0 each 0 each 0 each 0 each 0 per pound 0	4 5 4 6	5.61	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ 9,184.46 \$	- - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$		\$ <u>-</u>	\$ 10,483.2	5 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extens	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407	each C each C each C each C each C each C each C each C each C each C C each C C C Total structure count:	4 5 4 6	5.61 1.11	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -	\$ -	\$ 10,483.20	5 \$
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extens S1-D102 Assembly and Erection of +9 m leg extension	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407	each C each C each C each C each C each C each C each C each C each C C each C C C Total structure count:	4 5 4 6	5.61 1.11	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ 9,184.46 \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$		\$ -	\$ 10,483.20	6 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extens S1-D102 Assembly and Erection of +9 m leg extensio Total Tower Weight With Guys and Ext. (lb) = 1	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dest = \$ 2.407 Sion for Medium Angle Tower on for Medium Angle Tower Topping Total Tower Height(ft) =	each each cach each cach cach cach cach	4 5 4 6 6 22-43DD-0012, pc	5.61 1.11	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$ - \$ 9,184.46 \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 10,483.26	\$ -	\$ 10,483.20	6 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extens S1-D102 Assembly and Erection of +9 m leg extension	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower on for Medium Angle Tower Topping Total Tower Height(ft) = Site Preparation	each	4 5 4 6 6 22-43DD-0012, po 4355 2	5.61 1.11	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$	6,643.31 \$ - \$ - \$ 1,832.28 \$ - \$ - \$ - \$ 9,184.46 \$	-	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - - - - - - -	\$ -	\$ 10,483.20	3 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extens S1-D102 Assembly and Erection of +9 m leg extensio Total Tower Weight With Guys and Ext. (lb) = 17 Site Preparation	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dest = \$ 2.407 Sion for Medium Angle Tower on for Medium Angle Tower Topping Total Tower Height(ft) =	each C each each C each ea	4 5 4 6 0 22-43DD-0012, po 4355 2	5.61 1.11 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$. \$ \$.	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,184.46 \$ - \$ 809.11 \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 10,483.26	\$ -	\$ 10,483.20	6 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extension Total Tower Weight With Guys and Ext. (lb) = 17 Site Preparation Haul	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower on for Medium Angle Tower Topping Total Tower Height(ft) = Site Preparation Hauling	each each each cach each cach each cach each cach c	0 22-43DD-0012, pr 4355 2 1	5.61 1.11 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,184.46 \$ - \$ 809.11 \$ - \$	- - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 10,483.26	\$ -	\$ 10,483.20	6 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extension of the model of the m	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower on for Medium Angle Tower Topping Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each cach each cach each each	0 22-43DD-0012, po 4355 2 1 3	5.61 1.11 EA er leg	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ 9,184.46 \$ \$ 809.11 \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - - - 10,483.26	\$ -	\$ 10,483.20	5 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extensio Total Tower Weight With Guys and Ext. (lb.) = 11 Site Preparation Haul Setup Blocks Assemble Bottom	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower In for Medium Angle Tower Topping Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each cach each each each each	0 22-43DD-0012, po 4355 2 1 3 4 5	5.61 1.11 EA er leg	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ 9,184.46 \$ \$ 7,582.76 \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - 10,483.26	\$ -	\$ 10,483.20	5 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extensio Total Tower Weight With Guys and Ext. (lb.) = 11 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower In for Medium Angle Tower Topping Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each cach each cach each each	0 22-43DD-0012, po 4355 2 1 3 4 5	5.61 1.11 EA er leg	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ 9,184.46 \$ \$ 7,582.76 \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - 10,483.26	\$ -	\$ 10,483.20	5 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower In for Medium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each cach each cach each each	0 22-43DD-0012, po 4355 2 1 3 4 5	5.61 1.11 EA er leg 1.83 6.40 1.26	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	6,643.31 \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 10,483.26	\$ -	\$ 10,483.20	5 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower In for Medium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each C each E E E E E E E E E	0 22-43DD-0012, po 4355 2 1 3 4 5 4 6	5.61 1.11 EA er leg 1.83 6.40 1.26	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 10,483.26	\$ -	\$ 10,483.20	6 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower In for Medium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 22-43DD-0012, pr 4355 2 1 3 4 5 4 6	5.61 1.11 EA er leg 1.83 6.40 1.26	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 9,184.46 \$ \$ 7,582.76 \$ - \$ 2,091.39 \$ - \$ - \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - 10,483.26	\$ -	\$ 10,483.20	6 \$
2	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Co S1-D102 Assembly and Erection of +9 m leg extension Total Tower Weight With Guys and Ext. (lb) = 1: Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Dist = \$ 2.407 Sion for Medium Angle Tower In for Medium Angle Tower Typ Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly Lattice Assembly	each each each each each each each each	0 22-43DD-0012, pr 4355 2 1 3 4 5	5.61 1.11 EA 1.83 6.40 1.26	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,183.92	6,643.31 \$ - \$ 1,832.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 10,483.26	\$ -	\$ 10,483.20	6 \$



Valard Construction LP

	NALCOR 350 kV HVdc Line Construction Front 3 (N	lewfoundland)					Crew Cost						Total Unit Cost	
ent			Units			Hours per							Manhours and	
L	Description		1	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	Accomply and Freetien of Dood Find Tower Tyr	- "D4"												
	Assembly and Erection of Dead-End Tower Typ		T-1-1-1		0.0			*	44 540 404 70	•	400.074.00	^	A 400 074 00	•
03	S1-D103 Assembly and Erection of Dead-End Tower Type S1-D103 Assembly and Erection of Dead-End Tower Type "D	"D1" Basic Body as	I otal structure co	ount:	86	EA		\$	11,513,191.79	\$	133,874.32	5 -	\$ 133,874.32	\$
	Total Tower Weight With Guys and Ext. (lb) = 44777	Total Tower Height(ft) =		Weight (lb) =	44777									
Ī	Site Preparation	0 17	each section v	vveignt (ib) =	2	2.00	\$ 675.12	\$ 1,350.24 \$	116,121.06	86 \$	1,350.24			
	Haul	Site Preparation Hauling	each	86	1	18.86		\$ 1,330.24 \$ \$ 8,318.61 \$	715,400.34		8,318.61			
	Setup Blocks	Hauling Blocking Crew	each	86	3			\$ 563.68 \$	48,476.87		563.68			
	Assemble	Lattice Assembly	each	86	4	65.85		\$ 77,959.85 \$	6,704,547.53		77,959.85			
ŀ	7 GOGHIDIC	Lattice Assembly	each	86		00.00		\$ - \$	-	86 \$	-			
-			each	86			\$ -	\$ - \$	_	86 \$				
ŀ	Erect Tower	Tower Topping	each	86	6	12.98	\$ 1.656.68	\$ 21.501.94 \$	1,849,166.75		21.501.94			
	haul Insulators and Travellers	Haul Travellers&Glass	each	86	7	3.00	, , , , , , , ,	\$ 1,909.91 \$			1,909.91			
	Hang Travellers	Hang Travellers	each	86	8		<u> </u>	\$ 2,888.13 \$	248,379.52		2,888.13			
	Dead-end	Deadends	each	86	13			\$ 19,381.95 \$	1,666,847.28		19,381.95			
ļ			each	86				\$ - \$	-	86 \$	-			
	Total Cost =	\$ 2.450	per pound	•		•		\$ 133,874.32 \$	11,513,191.79	\$	133,874.32			
4	S1-D104 Assembly and Erection of +4.5 m body extension	for Dead-End Tower	Total structure co	ount:	25	EA		\$	689,862.50	\$	27,594.50	\$ -	\$ 27,594.50	\$
	S1-D104 Assembly and Erection of +4.5 m body extension for	Dead-End Tower Type	e "D1" as per dwg. 50	05573-462 <mark>2</mark> -	-43DD-0043	_								
_	Total Tower Weight With Guys and Ext. (lb) = 11464	Total Tower Height(ft) =	136 Section V	Weight (lb) =	11464									
	Site Preparation	Site Preparation	each	25	2		\$ 675.1 2		, <u> </u>	25 \$	=			
	Haul	Hauling	each	25	1	4.83		\$ 2,129.77 \$	53,244.34		2,129.77			
	Setup Blocks	Blocking Crew	each	25	3			\$ - \$	_	25 \$	-			
L	Assemble Bottom	Lattice Assembly	each	25	4	16.86		\$ 19,959.69 \$	498,992.20		19,959.69			
- 1	Panel Bottom	Lattice Erection	each	25	5		+ .,	\$ - \$	-	25 \$	-			
-	Assemble Tops	Lattice Assembly	each	25	4		\$ 1,183.92	\$ - \$	-	25 \$				
ļ	Top / Assembly Tower	Tower Topping	each	25	6	3.32	\$ 1,656.68	\$ 5,505.04 \$	137,625.96		5,505.04			
ļ			each	25			-	\$ - \$	-	25 \$	-			
ļ			each	25			-	\$ - \$	-	25 \$	-			
			each	25			-	\$ - \$	-	25 \$	-			
Ĺ			each	25			\$ -	\$ - \$	-	25 \$	-			
	Total Cost =	\$ 2.407	per pound					\$ 27,594.50 \$	689,862.50	\$	27,594.50			
_	04 0405 4 11 15 41 4 40 5 1 1 4 4		T-1-1-1		0.5	EA		\$	4 004 507 00	\$	F0 000 00	^	\$ 53,262.69	•
	S1-D105 Assembly and Erection of +10.5 m body extension of +10.5 m body extension of +10.5 m body extension of				25	EA		Ф	1,331,567.29	Þ	53,262.69	a -	\$ 53,262.69	Þ
	S1-D105 Assembly and Erection of +10.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 22128	Total Tower Height(ft) =		00007.3-462. Weight (lb) =	22128									
ſ	Site Preparation	Site Preparation	each	25	2		\$ 675.12	\$ - \$		25 \$				
	Haul	Site Preparation Hauling	each	25	1	9.32		\$ 4,110.87 \$	102,771.81		4,110.87			
L				25	3	0.02		\$ 4,110.07 \$	102,771.01	25 \$, i io.o/			
	Setup Blocks	Blocking Crew	eacn		0			\$ 38,526.04 \$	963,150.91		38,526.04			
	Setup Blocks Assemble Bottom	Blocking Crew	each		4	32 54	1 183 92							
-	Assemble Bottom	Lattice Assembly	each	25	4 5	32.54					-			
	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each each	25 25			\$ 1,519.02	\$ - \$	-	25 \$	-			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each	25 25 25	5		\$ 1,519.02 \$ 1,183.92	\$ - \$ \$ - \$	-	25 \$ 25 \$	-			
	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each each each	25 25 25 25 25	5		\$ 1,519.02 \$ 1,183.92 \$ 1,656.68	\$ - \$ \$ - \$ \$ 10,625.78 \$	-	25 \$ 25 \$ 25 \$	-			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each	25 25 25 25 25 25	5		\$ 1,519.02 \$ 1,183.92 \$ 1,656.68	\$ - \$ \$ - \$ \$ 10,625.78 \$ \$ - \$	265,644.57 -	25 \$ 25 \$ 25 \$ 25 \$	10,625.78			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each	25 25 25 25 25 25 25	5	6.41	\$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ \$ - \$ \$ 10,625.78 \$ \$ - \$ \$ - \$	- - 265,644.57	25 \$ 25 \$ 25 \$ 25 \$ 25 \$ 25 \$	- - 10,625.78 -			
	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	25 25 25 25 25 25	5	6.41	\$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ \$ - \$ \$ 10,625.78 \$ \$ - \$ \$ - \$	265,644.57 - -	25 \$ 25 \$ 25 \$ 25 \$	- 10,625.78 - -			



INF	ALCOR 350 kV HVdc Line Construction Front 3	(Newfoundland)					Crew Cost						Total Unit Cost	
nt			L	Jnits		Hours per							Manhours and	
De	escription			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	1-D106 Assembly and Erection of +0 m leg extension f		Total struct		0	EA			\$ -	\$	1,980.04	\$ -	\$ 1,980.04	\$
S1-	1-D106 Assembly and Erection of +0 m leg extension for I					g								
Cit	Total Tower Weight With Guys and Ext. (lb) = 3290 te Preparation	Total Tower Height(ft) =	each	Section Weight (lb) =	823 2		\$ 675.12	- 1	\$ -	0 \$	-	1		
Ha	<u> </u>	Site Preparation	each	0		0.35	\$ 441.04		\$ -	0 \$				
	etup Blocks	Hauling Blocking Crew	each	0	3	0.55	\$ 281.84		\$ -	0 \$	<u> </u>			
	ssemble Bottom	Lattice Assembly	each	0		1.21		1.432.20	\$ -	0 \$	<u> </u>			
	anel Bottom	Lattice Erection	each	0	5	1.21	7 .,	1,402.20	\$ -	0 \$	_			
	ssemble Tops	Lattice Assembly	each	0	4			-	\$ -	0 \$	-			
	op / Assembly Tower	Tower Topping	each	0	6	0.24		395.01	\$ -	0 \$	_			
	1		each	0					\$ -	0 \$	_			
			each	0			\$		\$ -	0 \$	-			
			each	0			\$ - \$	-	\$ -	0 \$	-			
			each	0			\$ - \$		\$ -	0 \$	-			
	Total Cost =	\$ 2.4	07 per pound					1,980.04	\$ -	\$	-			
7 S1	1-D107 Assembly and Erection of +1.5 m leg extension	n for Dead-End Tower	Total struct		0	EA			-	\$	2,772.05	\$ -	\$ 2,772.0	5 \$
S1-	1-D107 Assembly and Erection of +1.5 m leg extension fo	r Dead-End Tower Typ		g. 505573-4622-		leg								
	Total Tower Weight With Guys and Ext. (lb) = 4607	Total Tower Height(ft) =		Section Weight (lb) =	1152							-		
	te Preparation	Site Preparation	each	0	2		\$ 675.12		\$ <u>-</u>	0 \$	-			
	aul	Hauling	each	0	11	0.49	\$ 441.04			0 \$	-			
	etup Blocks			^			\$ 281.84		\$	0 \$	_			
		Blocking Crew	each	0					T		-			
Ass	ssemble Bottom	Blocking Crew Lattice Assembly	each	0	4	1.69	\$ 1,183.92	2,005.09	\$ -	0 \$	-			
As: Pa	ssemble Bottom anel Bottom		each each	0	4 5	1.69	\$ 1,183.92 \$ \$ 1,519.02 \$	2,005.09	\$ -	0 \$	-			
As: Pa As:	ssemble Bottom anel Bottom ssemble Tops	Lattice Assembly	each each each	0	4 5 4		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$	2,005.09 5 -	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$	- - -			
As: Pa As:	ssemble Bottom anel Bottom	Lattice Assembly Lattice Erection	each each each each	0 0	4 5 4 6	1.69	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	2,005.09 5 - 5 - 5 553.02	\$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$	- - -			
As: Pa As:	ssemble Bottom anel Bottom ssemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each	0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68 \$ \$ 1,056.68	2,00 5.0 9	\$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -			
As: Pa As:	ssemble Bottom anel Bottom ssemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each	0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5 2,005.09 6 - 6 - 6 553.02 7 - 7 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - -			
As: Pa As:	ssemble Bottom anel Bottom ssemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	0 0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	5 2,005.09 6 - 6 - 6 553.02 7 - 6 - 7 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
As: Pa As:	essemble Bottom anel Bottom ssemble Tops op / Assembly Tower	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,656.68	5 2,005.09 6 - 6 - 6 553.02 7 - 6 - 7 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -			
As: Pa As:	ssemble Bottom anel Bottom ssemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each	0 0 0 0 0 0	4 5 4 6		\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ - \$	5 2,005.09 6 - 6 5 5 553.02 6 - 6 5 6 - 7 5 8 - 8 - 9 5 9 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
Ass Pa Ass To	ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower Total Cost =	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0	4 5 4 6	0.33	\$ 1,183.92 \$ 1,519.02 \$ 1,656.68	2,005.09 - 553.02 - 5 - 5 - 5 - 5 - 5 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -		¢ 2 904 7	: c
Ass Pa Ass To	ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower Total Cost = 1-D108 Assembly and Erection of +3 m leg extension f	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4	each each each each each each each each	0 0 0 0 0 0 0 0	4 5 4 6	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,656.68	2,005.09 - 553.02 - 5 - 5 - 5 - 5 - 5 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -	\$ -	\$ 3,891.7	5 \$
Ass Pa Ass To	seemble Bottom anel Bottom seemble Tops op / Assembly Tower Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I 1-D108 Assembly and Erection of +3 m leg extension for I	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type	each each each each each each each each	0 0 0 0 0 0 0 0 0 0	4 5 4 6	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,656.68	2,005.09 - 553.02 - 5 - 5 - 5 - 5 - 5 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -	\$ -	\$ 3,891.75	5 \$
8 S1:	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (lb.) = 6467	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Height(ft) =	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 84 8DD-0043, per leg 1617	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68	5 2,005.09 5 - 5 553.02 6 - 6 - 6 - 6 - 7 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,891.75	\$ -	\$ 3,891.75	5 \$
Ass Pa Ass To	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 6467 te Preparation	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6DD-0043, per leg	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68	5 2,005.09 5 - 6 553.02 6 - 6 - 6 2,772.05	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - - 3,891.75	\$ -	\$ 3,891.75	5 \$
Ass Pa Ass To St. Sitt Ha	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 6467 te Preparation aul	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 For Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6DD-0043, per leg	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5 2,005.09 5 - 5 553.02 5 - 6 - 6 2,772.05	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,891.75	\$ -	\$ 3,891.7	5 \$
8 S1 Sit Ha	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 6467 te Preparation	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 For Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 BDD-0043, per leg 1617 2 1	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68	5 2,005.09 5 - 5 553.02 6 - 6 - 6 2,772.05	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,891.75	\$ -	\$ 3,891.7	5 \$
8 S1 Sit Ha	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 6467 te Preparation aul etup Blocks ssemble Bottom	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 8DD-0043, per leg 1617 2 1 3	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68 \$ \$ 1,056.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$	5 2,005.09 5 - 5 553.02 5 - 6 - 6 - 6 2,772.05 6 - 6 300.37 6 - 7 2,814.99	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,891.75	\$ -	\$ 3,891.7	5 \$
8 S1 Sit Ha Se As:	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 6467 te Preparation aul etup Blocks	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 For Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 8DD-0043, per leg 1617 2 1 3 4 5	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,056.68 \$ \$ 1,056.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$	5 2,005.09 5 - 5 553.02 5 - 6 - 6 - 6 2,772.05 6 - 6 300.37 6 2,814.99 6 -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,891.75	\$ -	\$ 3,891.7	5 \$
As: Pa As: To O Sitt Ha Se As: Pa As: As: As: As: As: As: As: As: As: As:	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (lb) = 6467 Ite Preparation aul etup Blocks esemble Bottom anel Bottom seemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 80D-0043, per leg 1617 2 1 3 4 5	0.33 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$	2,005.09	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 3,891.75	\$ -	\$ 3,891.7	5 \$
Ass Pa Ass S1 Sit Ha Se Ass Pa Ass	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (Ib) = 6467 te Preparation aul etup Blocks essemble Bottom anel Bottom anel Bottom	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 84 8DD-0043, per leg 1617 2 1 3 4 5 4	0.33 EA 9 0.68	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ 1,656.68 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 2,005.09 5 - 5 553.02 5 - 6 - 6 - 6 2,772.05 6 - 6 300.37 6 - 6 2,814.99 6 -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,891.75	\$ -	\$ 3,891.75	5 \$
Ass Pa Ass S1 Sit Ha Se Ass Pa Ass	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (lb) = 6467 Ite Preparation aul etup Blocks esemble Bottom anel Bottom seemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 8DD-0043, per leg 1617 2 1 3 4 5 4 6	0.33 EA 9 0.68	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$	5 2,005.09 5 - 5 553.02 6 - 6 - 6 2,772.05 6 - 6 300.37 6 2,814.99 6 - 6 776.40	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 326,907.27 \$ - \$ 25,231.06 \$ - \$ 236,458.97 \$ - \$ 65,217.24	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,891.75 - 300.37 - 2,814.99 - 776.40	\$ -	\$ 3,891.75	5 \$
As: Pa As: To O Sit Ha Se As: Pa As: Sit Ha Se As: Pa As:	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (lb) = 6467 Ite Preparation aul etup Blocks esemble Bottom anel Bottom seemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 8DD-0043, per leg 1617 2 1 3 4 5 4	0.33 EA 9 0.68	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,519.02 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$	5 2,005.09 5 - 5 553.02 6 - 6 553.02 6 - 6 2,772.05 6 - 6 300.37 6 2,814.99 6 - 6 776.40 6 - 6 776.40	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 326,907.27 \$ - \$ 25,231.06 \$ - \$ 236,458.97 \$ - \$ 65,217.24 \$ -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,891.75 - 300.37 - 2,814.99 - 776.40	\$ -	\$ 3,891.7	5 \$
8 S1 Sit Ha Se Ass	Total Cost = 1-D108 Assembly and Erection of +3 m leg extension for I Total Tower Weight With Guys and Ext. (lb) = 6467 Ite Preparation aul etup Blocks esemble Bottom anel Bottom seemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.4 for Dead-End Tower Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 6 BDD-0043, per leg 1617 2 1 3 4 5	0.33 EA 9 0.68	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ 1,856.6	5 2,005.09 5 - 5 553.02 6 - 6 553.02 6 - 6 2,772.05 6 2,772.05 6 2,814.99 6 - 6 776.40 6 - 6 - 6 - 6 - 776.40	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 25,231.06 \$ \$ - \$ \$ 236,458.97 \$ \$ - \$ \$ 65,217.24 \$ \$ - \$ \$ - \$ \$	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 3,891.75	\$	\$ 3,891.75	5 \$



	NALCOR 350 kV HVdc Line Construction Fro	ont 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment			Units	1	Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::D109	S1-D109 Assembly and Erection of +4.5 m leg exter		Total structure count:	24	EA		\$	127,215.95	\$	5,300.66	\$ -	\$ 5,300.60	5 \$ -
	S1-D109 Assembly and Erection of +4.5 m leg extensi				leg								
		Total Tower Height(ft) =	136 Section Weight (lb) =	2202			1.				Ī		
	Site Preparation	Site Preparation	each 24						24 \$	-			
	Haul	Hauling	each 24		0.93	\$ 441.04 \$	409.11 \$	9,818.67	24 \$	409.11			
	Setup Blocks	Blocking Crew	each 24		0.04	\$ 281.84 \$	- \$	-	24 \$	-			
	Assemble Bottom	Lattice Assembly	each 24		3.24	\$ 1,183.92 \$	- /	92,018.00		3,834.08			
	Panel Bottom	Lattice Erection	each 24			\$ 1,519.02 \$			24 \$ 24 \$	-			
	Assemble Tops	Lattice Assembly	each 24 each 24		0.64	1,10010=		- 25 270 20		1 057 17			
	Top / Assembly Tower	Tower Topping	each 24		0.64	\$ 1,656.68 \$	1,057.47 \$	25,379.29	24 \$	1,057.47			
			each 24			\$ - \$ \$ - \$		-	24 \$	<u> </u>			
			each 24			\$ - \$	T .		24 \$				
			each 24			\$ - \$			24 \$				
	L Total Cos	st = \$ 2.407	per pound			- 5 \$	5,300.66 \$	127,215.95		5,300.66			
	Total Cos	st = φ 2.401	per pourid			4	3,300.00 \$	127,213.93	Ψ	3,300.00			
√::D110	S1-D110 Assembly and Erection of +6 m leg extens	sion for Dead-End Tower	Total structure count:	92	EA		¢	576,881.60	\$	6,270.45	¢ -	\$ 6,270.4	
יווע	S1-D110 Assembly and Erection of +6 m leg extension						•	370,001.00	Ψ	0,270.43	.	φ 0,270.4	- ·
)420 Total Tower Height(ft) =	141 Section Weight (lb) =	2605	9								
	Site Preparation	Site Preparation	each 92			\$ 675.12 \$	- \$		92 \$				
	Haul	Hauling	each 92			\$ 441.04 \$		44,524.35	92 \$	483.96			
	Setup Blocks	Blocking Crew	each 92			\$ 281.84 \$	- \$	-	92 \$	-			
	Assemble Bottom	Lattice Assembly	each 92		3.83	\$ 1,183.92 \$		417,270.71		4,535.55			
	Panel Bottom	Lattice Erection	each 92		9.00	\$ 1,519.02 \$			92 \$				
	Assemble Tops	Lattice Assembly	each 92			\$ 1,183.92 \$		_	92 \$	-			
	Top / Assembly Tower	Tower Topping	each 92		0.76	\$ 1,656.68 \$	1,250.94 \$	115,086.53	92 \$	1,250.94			
			each 92			\$ - \$		-	92 \$	-			
			each 92			\$ - \$		=	92 \$	=			
			each 92			\$ - \$	- \$	=	92 \$	=			
			each 92			\$ - \$	- \$	-	92 \$	-			
	Total Cos	st = \$ 2.407	per pound			\$	6,270.45 \$	576,881.60	\$	6,270.45			
								·		•	•		
/::D111	S1-D111 Assembly and Erection of +7.5 m leg exter	nsion for Dead-End Tower	Total structure count:	60	EA		\$	448,105.49	\$	7,468.42	\$ -	\$ 7,468.42	2 \$ -
	S1-D111 Assembly and Erection of +7.5 m leg extensi	ion for Dead-End Tower Type "[D1" as per dwg. 505573-4622	-43DD-0043, per	leg								
	Total Tower Weight With Guys and Ext. (lb) = 12	2411 Total Tower Height(ft) =	146 Section Weight (lb) =	3103							_		
	Site Preparation	Site Preparation	each 60			Ψ 01 01.12 Ψ	- \$	-	60 \$	-			
	Haul	Hauling	each 60		1.31	\$ 441.04 \$		34,585.27		576.42			
	Setup Blocks	Blocking Crew	each 60			\$ 281.84 \$		-	60 \$	-			
	Assemble Bottom	Lattice Assembly	each 60	-	4.56	\$ 1,183.92 \$		324,124.22		5,402.07			
	Panel Bottom	Lattice Erection	each 60			\$ 1,519.02 \$	- \$	-	60 \$	-			
	Assemble Tops	Lattice Assembly	each 60			Ψ 1,100.02 Ψ	- \$	-	60 \$	-			
	Top / Assembly Tower	Tower Topping	each 60		0.90	Ψ 1,000.00 Ψ	, ,	89,396.00	60 \$	1,489.93			
			each 60		,	\$ - \$		=	60 \$	-			
			each 60			T		-	60 \$	-			
			each 60			\$ - \$		-	60 \$	-			
			each 60			T T		-	60 \$	-			
	Total Cos	st = \$ 2.40 7	per pound			\$	7,468.42 \$	448,105.49	\$	7,468.42			



	NALCOR 350 kV HVdc Line Construction Front 3 (N	Newfoundland)				Crew Cost						Total Unit Cost	
nt			Units		Hours per							Manhours and	
L	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	C4 D442 Assembly and Freedom of Complement	. Dood Fud Tower	Total atrustina accordi	84	EA			¢ 222.200.05	•	9,909.48	¢	\$ 9,909.48	œ.
	S1-D112 Assembly and Erection of +9 m leg extension for S1-D112 Assembly and Erection of +9 m leg extension for De		Total structure count:					\$ 832,396.05	\$	9,909.48	-	\$ 9,909.48	a
	Total Tower Weight With Guys and Ext. (Ib) = 16468	Total Tower Height(ft) =	151 Section Weight (lb) =	7.1	y								
Г	Site Preparation	Site Preparation	each 84			\$ 675.12	\$ -	\$ -	84 \$	-			
-	Haul	Hauling	each 84		1.73	\$ 441.04	·			764.82			
	Setup Blocks	Blocking Crew	each 84		1.10	\$ 281.84			84 \$	-			
	Assemble Bottom	Lattice Assembly	each 84		6.05		\$ 7,167.74			7.167.74			
	Panel Bottom	Lattice Erection	each 84		0.00		, , -	\$ -	84 \$				
L	Assemble Tops	Lattice Assembly	each 84			. ,	T	\$ -	84 \$	_			
-	Top / Assembly Tower	Tower Topping	each 84		1.19	,	\$ 1,976.92		84 \$	1,976.92			
F			each 84			-	· · · · · · · · · · · · · · · · · · ·	\$ -	84 \$	-			
F			each 84		7		\$ -	\$ -	84 \$	-			
Ī			each 84		7	\$ -	\$ -	\$ -	84 \$	_			
Ī			each 84	1	9	\$ -	\$ -	\$ -	84 \$	_			
	Total Cost =	\$ 2.407	7 per pound				\$ 9,909.48	\$ 832,396.05	\$	9,909.48			
	Assembly and Erection of Dead-End Tower Type	e "D2"											
	S1-D113 Assembly and Erection of Dead-End Tower Type		Total structure count:	0	EA			\$ -	\$	134,684.54	\$ -	\$ 134,684.54	\$
	S1-D113 Assembly and Erection of Dead-End Tower Type "D2			·						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
	Total Tower Weight With Guys and Ext. (lb) = 41363	Total Tower Height(ft) =	106 Section Weight (lb) =										
Γ	Site Preparation	Site Preparation	each C	0 2	2.00	\$ 675.1 2	\$ 1,350.24	\$ -	0 \$	=			
Ī	Haul	Hauling	each C	0 1	21.42	\$ 441.04			0 \$	_			
Ī	Setup Blocks	Blocking Crew	each 0	0 3	2.00	\$ 28 1.84	\$ 563.68	\$ -	0 \$	_			
Ī	Assemble	Lattice Assembly	each C	0 4	60.83	\$ 1,183.92	\$ 72,016.09	\$ -	0 \$	-			
		Lattice Erection	each C	5	9	\$ 1,519.02	\$ -	\$ -	0 \$	-			
		Lattice Assembly	each 0	J 	9	\$ 1,183.92	\$ -	•	0 \$	=			
	Erect Tower	Tower Topping	each C	0 6	15.99	\$ 1,656. 68		•	0 \$	-			
	haul Insulators and Travellers	Haul Travellers&Glass	each C	7	4.00	\$ 636.64			0 \$	-			
	Hang Travellers	Hang Travellers	each C	8	2.00	\$ 1,444.07			0 \$	-			
	ID I I												
-	Dead-end	Deadends	each C	13	14.00	\$ 1,384.42	\$ 19,381.95	\$ -	0 \$	-			
-			each 0		14.00		\$ -	\$ -	0 \$	-			
-	Total Cost =				14.00	\$ -		\$ -					
<u>-</u>	Total Cost =	\$ 2.656	each 0	0	3	\$ -	\$ - \$ 134,684.54	\$ - \$ -	0 \$	-			
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension	\$ 2.656	each 0 6 per pound Total structure count:	0	14.00 S	\$ -	\$ - \$ 134,684.54	\$ -	0 \$	-	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type	each 0 6 per pound Total structure count: e "D2" as per dwg. 505573-463	0 22-43DD-0045	3	\$ -	\$ - \$ 134,684.54	\$ - \$ -	0 \$	-	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695	\$ 2.656 In for Dead-End Tower In Dead-End Tower Type Total Tower Height(ft) =	each 0 0 0 0 0 0 0 0 0	0 22-43DD-0045 15695	3	-	\$ - \$ 134,684.54	\$ - \$ -	0 \$	- - 37,777.93	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation	each 0 0 0 0 0 0 0 0 0	0 22-43DD-0045 15695 0 2	EA S	\$ 675.12	\$ - \$ 134,684.54 \$ -	\$ - \$ - \$ -	0 \$ \$ \$	- 37,777.93	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling	each 0 0 0 0 0 0 0 0 0	0 22-43DD-0045 15695 0 2	3	\$ - \$ 675.12 \$ 441.04	\$ - \$ 134,684.54 \$ - \$ 2,915.74	\$ - \$ - \$ - \$ -	0 \$ \$ \$ 0 \$ 0 \$	- 37,777.93	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks	\$ 2.656 In for Dead-End Tower To Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each 0 0 0 0 0 0 0 0 0	0 22-43DD-0045 15695 0 2 0 1	EA 6.61 \$	\$ - 675.12 \$ 441.04 \$ 281.84	\$ - \$ 134,684.54 \$ - \$ 2,915.74 \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ 0 \$ 0 \$ 0 \$	- 37,777.93 - -	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom	\$ 2.656 In for Dead-End Tower To Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each 00	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4	EA S	\$	\$ - \$ 134,684.54 \$ - \$ 2,915.74 \$ - \$ 27,325.58	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ 0 \$ 0 \$ 0 \$	- 37,777.93 - - -	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	\$ 2.656 In for Dead-End Tower To Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each C	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4	EA 6.61 \$	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ - \$ 134,684.54 \$ - \$ 2,915.74 \$ - \$ 27,325.58 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$	- 37,777.93 - - - -	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Heuling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each C	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4 0 5 0 4	EA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$	\$ - \$ 134,684.54 \$ 2,915.74 \$ - \$ 27,325.58 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$	- 37,777.93 - - - - - -	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	\$ 2.656 In for Dead-End Tower To Dead-End Tower Type Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each C	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4 0 5 0 4	EA 6.61 \$	\$	\$ - \$ 134,684.54 \$ 2,915.74 \$ - \$ 27,325.58 \$ - \$ 7,536.61	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$	- 37,777.93 - - - - - - -	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Heuling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each C C C C C C C C C	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4 0 5 0 4	EA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ 134,684.54 \$ 2,915.74 \$ - \$ 27,325.58 \$ - \$ 7,536.61 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 37,777.93 - - - - - - -	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Heuling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each C C C C C C C C C	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4 0 5 0 4	EA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ -	\$ - \$ 134,684.54 \$ - \$ 2,915.74 \$ - \$ 27,325.58 \$ - \$ 7,536.61 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 37,777.93	\$ -	\$ 37,777.93	\$
4	Total Cost = S1-D114 Assembly and Erection of +4.5 m body extension S1-D114 Assembly and Erection of +4.5 m body extension for Total Tower Weight With Guys and Ext. (Ib) = 15695 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Assemble Tops	\$ 2.656 In for Dead-End Tower or Dead-End Tower Type Total Tower Height(ft) = Site Preparation Heuling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	each C C C C C C C C C	0 22-43DD-0045 15695 0 2 0 1 0 3 0 4 0 5 0 4 0 6	EA \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,656.68 \$ - \$ -	\$ - \$ 134,684.54 \$ 2,915.74 \$ - \$ 27,325.58 \$ - \$ 7,536.61 \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 37,777.93 - - - - - - -	\$ -	\$ 37,777.93	\$



	ALCOR 350 kV HVdc Line Construction F							Crew Cost						Total Unit Cost	
Do	operintion.				Units Total	ON	Hours per	Hausta Bata	11-14 04	Subtotal	Linita	11-it Ot	Materials	Manhours and Materials	Total Materials
De	escription				lotai	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	l otal Materials
61	I-D115 Assembly and Erection of +10.5 m body	ly ovtoncio	n for Dood End	Tower Total struc	ture count:	0	EA			\$	- \$	-	¢	- \$ -	\$
	I-D115 Assembly and Erection of +10.5 m body					-	_ LA			Ψ	- φ		Ψ	- Ψ -	Ψ
01		16061	Total Tower Height		Section Weight (lb) =	16061									
Site	te Preparation		Site Preparation	each	1 0			\$ 675.12 \$	- 1	\$	- 0 \$	_			
Ha			Hauling	each	0			\$ 441.04 \$		\$	- 0 \$				
	etup Blocks		Blocking Crew	each	0	3		\$ 281.84 \$		\$	- 0 \$				
	ssemble Bottom	-	Lattice Assembly	each	0	4		\$ 1.183.92 \$	- !	\$	- 0 \$				
Pai	anel Bottom	-	Lattice Erection	each	0	5		\$ 1,519.02 \$	- :	\$	- 0 \$				
Ass	ssemble Tops		Lattice Assembly	each	0	4		\$ 1,183.92 \$	- :	\$	- 0 \$	_			
Top	pp / Assembly Tower		Tower Topping	each	0	6		\$ 1,656.68 \$	- :	\$	- 0 \$	_			
	•			each	0			\$ - \$	- 1	\$	- 0 \$				
				each	0			\$ - \$	- /	\$	- 0 \$	-			
				each	0			\$ - \$		\$	- 0 \$	-			
				each	0			\$ - \$		\$	- 0 \$				
	Total (Cost =	\$	 per pound 				\$	-	\$	- \$	-			
															_
S1	I-D116 Assembly and Erection of +0 m leg exte	ension for	Dead-End Towe	er Total struct		0	EA			\$	- \$	4,445.63	\$	- \$ 4,445.6	3 \$
S1-	I-D116 Assembly and Erection of +0 m leg extens		•				g								
	Total Tower Weight With Guys and Ext. (lb) =	7388	Total Tower Height	. ,	Section Weight (lb) =	1847	,						_		
	te Preparation		Site Preparation	each	0	2		\$ 675.12 \$			- 0 \$				
							0.70	\$ 441.04 \$	343.12	S	- 0 \$	-			
На			Hauling	each	0	1	0.78						_		
Ha Set	etup Blocks		Blocking Crew	each	0			\$ 281.84 \$		\$	- 0 \$	-			
Ha Set Ass	etup Blocks ssemble Bottom		Blocking Crew Lattice Assembly	each each	0	4	2.72	\$ 281.84 \$ \$ 1,183.92 \$	3,215.62	\$ \$	- 0 \$ - 0 \$				
Ha Set Ass Par	etup Blocks ssemble Bottom anel Bottom		Blocking Crew Lattice Assembly Lattice Erection	each each each	0 0	4 5		\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$	3,21 5.6 2	\$ \$ \$	- 0 \$ - 0 \$	- - -			
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom ssemble Tops		Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each	0 0 0	4 5 4	2.72	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$	3,215.62 -	\$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$	- - -			
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom		Blocking Crew Lattice Assembly Lattice Erection	each each each each each	0 0 0 0	4 5 4 6		\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$	3,215.62 - 886.89	\$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - -			
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom ssemble Tops		Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each	000000000000000000000000000000000000000	4 5 4 6	2.72	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$	3,215.62 - - 886.89	\$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - -			
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom ssemble Tops		Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0	4 5 4 6	2.72	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$	3,215.62 - - 886.89 -	\$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - -	-		
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom ssemble Tops		Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	0 0 0 0 0 0 0 0 0 0	4 5 4 6	2.72 0.54	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	3,215.62 - - - 886.89 - -	\$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - -	-		
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower	Cost -	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6	2.72 0.54	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$	3,215.62 - - - 886.89 - - - -	\$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - -	-		
Ha Set Ass Par Ass	etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower	Cost =	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6	2.72 0.54	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	3,215.62 - - - 886.89 - -	\$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - -			
Ha Sei Ass Pal Ass Top	etup Blocks ssemble Bottom anel Bottom ssemble Tops sp / Assembly Tower Total (Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each each each each each each each each	000000000000000000000000000000000000000	4 5 4 6	0.54	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	3,215.62 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - - -		- \$ 5 927 5	1 8
Ha Sei Ass Pai Ass Top	etup Blocks ssemble Bottom anel Bottom ssemble Tops pp / Assembly Tower Total (extension fo	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ pr Dead-End Tov	each each each each each each each each	0 0 0 0 0 0 0 0 0	4 5 4 6	2.72 0.54	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	3,215.62 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - -	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pai Ass Top	etup Blocks ssemble Bottom anel Bottom ssemble Tops pp / Assembly Tower Total (I-D117 Assembly and Erection of +1.5 m leg external semble and the semble	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ pr Dead-End Tower	each each each each each each each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 0 -43DD-0045, per	2.72 0.54	\$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	3,215.62 - - - - - - - - - - - - - - - - - - -	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - - -	\$	- \$ 5,927.5	1 \$
Ha Sel Ass Pan Ass Top	etup Blocks ssemble Bottom anel Bottom ssemble Tops pp / Assembly Tower Total (I-D117 Assembly and Erection of +1.5 m leg exte Total Tower Weight With Guys and Ext. (lb) =	extension fo	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ por Dead-End Tower Total Tower Height	each each each each each each each each each each each each each each each Each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 -43DD-0045, per 2463	2.72 0.54	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 5 - \$ \$ 5 - \$ \$ 5 - \$ \$ 5 - \$ \$ \$ - \$ \$ \$	3,215.62 - 886.89 - - - 4,445.63	\$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pa Ass To S1 Site	etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower Total of the Indian Assembly and Erection of +1.5 m leg externation of the Indian Exercise of the Indian Exerc	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ pr Dead-End Tower Total Tower Height Site Preparation	each each each each each each each each each each each each each each each each each each each Type "D2" as per dwarff(f) = 111 each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 0 -43DD-0045, per 2463 2	2.72 0.54 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ \$ - \$ \$ 5 - \$ \$ 5 - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$	3,215.62 - 886.89 - - - 4,445.63	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - - - - - - - - - - - - - -	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pai Ass Top S1: Site Ha	etup Blocks ssemble Bottom anel Bottom ssemble Tops pp / Assembly Tower Total 1 I-D117 Assembly and Erection of +1.5 m leg externology Total Tower Weight With Guys and Ext. (lb) = te Preparation aul	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ pr Dead-End Tower Total Tower Height Site Preparation Hauling	each each each each each each each each each each each each each each each Each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 5 4 6 6 -43DD-0045, per 2463 2	2.72 0.54	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,215.62 - 886.89 - - - 4,445.63	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$ - 0 \$	- - - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Top S1. Situ Ha Sei	etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower Total of the Indian Assembly and Erection of +1.5 m leg externation of the Indian Exercise of the Indian Exerc	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ pr Dead-End Tower Total Tower Height Site Preparation	each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -43DD-0045, per 2463 2 1	2.72 0.54 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,215.62 - 886.89 - - - 4,445.63	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pal Ass Top S1. Sitte Ha Sei Ass	Total of the Preparation and Blocks Seemble Bottom anel Bottom Seemble Tops Depth Assembly Tower Total of the Preparation aul Betup Blocks	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ \$ Page 15	each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -43DD-0045, per 2463 2 1 3 4	2.72 0.54 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,215.62 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pal Ass Top Site Ha Sei Ass Pal	etup Blocks ssemble Bottom anel Bottom ssemble Tops op / Assembly Tower Total of the Indian Assembly and Erection of +1.5 m leg externation of the Indian Assembly and Erection of +1.5 m leg externation of the Indian Assembly and Ext. (Ib.) = the Preparation and Ext. (Bottom Blocks assemble Bottom	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping \$ \$ Or Dead-End Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly	each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 43DD-0045, per 2463 2 1 3 4 5	2.72 0.54 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$	- 3,215.62 - 886.89 - - - 4,445.63 - 4,445.63	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pal Ass Top Site Ha Sei Ass Pal Ass Fal Ass Fal Ass Ass Pal Ass	etup Blocks semble Bottom anel Bottom semble Tops op / Assembly Tower Total of the Indian Tower Weight With Guys and Ext. (Ib.) = te Preparation aul etup Blocks semble Bottom anel Bottom anel Bottom anel Bottom	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Frection Lattice Assembly Tower Topping \$ Or Dead-End Tove Pead-End Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 43DD-0045, per 2463 2 1 3 4 5	2.72 0.54 EA	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,1656.68 \$ 1,656.68 \$	3,215.62	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pal Ass Top Site Ha Sei Ass Pal Ass Fal Ass Fal Ass Ass Pal Ass	Total of the Preparation and Every Blocks Seemble Bottom Seemble Tops Total of the Preparation and Every Blocks Seemble Tops Total of the Preparation and Every Blocks Seemble Bottom Seemble Bottom Seemble Bottom Seemble Bottom Seemble Tops	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ Or Dead-End Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly	each each	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 43DD-0045, per 2463 2 1 3 4 5	2.72 0.54 leg 1.04 3.62	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ \$ 1,656.68 \$ \$ - \$ \$ \$. \$. \$ \$. \$. \$ \$.	- 3,215.62 - 886.89 - - - - 4,445.63 - 4,57.49 - 4,287.49 - - 1,182.52	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
7 S1: Site Has Se' Ass Pal Ass Top S1: Site Has Se' Ass Pal Ass	Total of the Preparation and Every Blocks Seemble Bottom Seemble Tops Total of the Preparation and Every Blocks Seemble Tops Total of the Preparation and Every Blocks Seemble Bottom Seemble Bottom Seemble Bottom Seemble Bottom Seemble Tops	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ Or Dead-End Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly	each each	ture count: Section Weight (lb) =	0 -43DD-0045, per 2463 2 1 3 4 5 4 6	2.72 0.54 leg 1.04 3.62	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,163.92 \$ 1,656.68 \$	- 3,215.62 - 886.89 - - - 4,445.63 - 4,445.63 - 4,287.49 - 4,287.49 - 1,182.52	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pal Ass Top Site Ha Sei Ass Pal Ass Fal Ass Fal Ass Ass Pal Ass	Total of the Preparation and Every Blocks Seemble Bottom Seemble Tops Total of the Preparation and Every Blocks Seemble Tops Total of the Preparation and Every Blocks Seemble Bottom Seemble Bottom Seemble Bottom Seemble Bottom Seemble Tops	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ Or Dead-End Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly	each each	ture count: wg. 505573-4622 Section Weight (lb) =	0 43DD-0045, per 2463 2 1 3 4 5 4 6	2.72 0.54 leg 1.04 3.62	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ \$ 1,556.68 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ 441.04 \$ \$ 281.84 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$	- 3,215.62 - 886.89 - - - 4,445.63 - 4,445.63 - 4,287.49 - - 1,182.52 - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$
Ha Sei Ass Pal Ass Top Site Ha Sei Ass Pal Ass Fal Ass Fal Ass Ass Pal Ass	Total of the Preparation and Every Blocks Seemble Bottom Seemble Tops Total of the Preparation and Every Blocks Seemble Tops Total of the Preparation and Every Blocks Seemble Bottom Seemble Bottom Seemble Bottom Seemble Bottom Seemble Tops	extension fo ension for D	Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ Or Dead-End Tower Total Tower Height Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly	each each	ture count: wg. 505573-4622 Section Weight (lb) =	0 43DD-0045, per 2463 2 1 3 4 5	2.72 0.54 leg 1.04 3.62	\$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$	3,215.62 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 0 \$ - 0 \$	- - - - - - - - 5,927.51	\$	- \$ 5,927.5	1 \$



	NALCOR 350 kV HVdc Line Construction	r Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment		Ì	Units		Hours per							Manhours and	
Item	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
				_						7 044 04	•	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	•
			Total structure count:	0	EA		\$	-	\$	7,611.04	-	\$ 7,611.04	\$
	S1-D118 Assembly and Erection of +3 m leg external Total Tower Weight With Guys and Ext. (lb) =	ension for Dead-End Tower Type "D 12648 Total Tower Height(ft) =	2" as per dwg. 505573-4622-4 116 Section Weight (lb) =		9								
	Site Preparation	3 ()		3162		\$ 675.12 \$	16		0 \$				
	Haul	Site Preparation	each C		1.33	\$ 675.12 \$ \$ 441.04 \$	- \$ 587.43 \$	-	0 \$				
	Setup Blocks	Hauling	each C			\$ 281.84 \$							
	Assemble Bottom	Blocking Crew	each C		4.65	\$ 1,183.92 \$	5,505.23 \$	-	0 \$				
	Panel Bottom	Lattice Assembly		5		\$ 1,103.92 \$ \$ 1,519.02 \$							
	Assemble Tops	Lattice Erection Lattice Assembly	each			\$ 1,183.92 \$			-	-			
	Top / Assembly Tower	Lattice Assembly Tower Topping	each C	<u> </u>	0.92	\$ 1,656.68 \$			0 \$				
	Top / Assembly Tower	Tower Topping	each C		0.92	\$ 1,030.00 \$		-	0 \$				
						\$ - \$			0 \$				
			each			\$ - \$	-		0 \$				
			each			\$ - \$							
	Tota	al Cost = \$ 2.407	per pound	/		\$	7,611.04 \$	-					
	100	υι ΟΟΟΙ Ψ Σ.+ΟΙ	per pourid			Ψ	ν,στι.στ ψ		Ψ				
VD119	S1-D119 Assembly and Erection of +4.5 m leg	extension for Dead-End Tower	Total structure count:	0	EA		S		\$	8,897.90	\$ -	\$ 8,897.90	• • ·
VD113	S1-D119 Assembly and Erection of +4.5 m leg ex								•	0,007.00	Ψ	ψ 0,037.30	•
	Total Tower Weight With Guys and Ext. (lb) =	14786 Total Tower Height(ft) =	121 Section Weight (lb) =	3697	-g								
	Site Preparation	Site Preparation	each C			\$ 675.12 \$	- \$	_	0 \$	-			
	Haul	Hauling	each C			\$ 441.04 \$			0 \$				
	Setup Blocks	Blocking Crew		3		\$ 281.84 \$		_					
	Assemble Bottom	Lattice Assembly	each 0			\$ 1,183.92 \$							
	Panel Bottom	Lattice Erection	each C			\$ 1,519.02 \$		_	0 \$				
	Assemble Tops	Lattice Assembly	each 0			\$ 1,183.92 \$			0 \$				
	Top / Assembly Tower	Tower Topping	each C		1.07	\$ 1,656.68 \$	1,775.11 \$		0 \$				
	Top / / Gaernary Tower	Tower Topping	each C		1.07	\$ - \$		_	0 \$				
			each C		Α	\$ - \$		-					
			each C		A 4	\$ - \$		_	0 \$				
						\$ - \$	- \$	_					
	Tota	al Cost = \$ 2.407	per pound	<u> </u>		\$	8,897.90 \$	-		-			
	100	αι σσοι ψ 2.107	por pound				σ,σσ7.σσ		Ψ				
V··D120	S1-D120 Assembly and Erection of +6 m leg e	xtension for Dead-End Tower	Total structure count:	0	EA		\$	-	\$	11,744.91	\$ -	\$ 11,744.91	S .
	S1-D120 Assembly and Erection of +6 m leg extended and Erection of +6 m le				_		V		_	,	•	,,	•
	Total Tower Weight With Guys and Ext. (lb) =	19518 Total Tower Height(ft) =	126 Section Weight (lb) =	4879									
	Site Preparation	Site Preparation		2		\$ 675.12 \$	- \$	_	0 \$	-			
	Haul	Hauling	each 0		2.06	\$ 441.04 \$		-	0 \$				
	Setup Blocks	Blocking Crew	each 0	3		\$ 281.84 \$		-	0 \$				
	Assemble Bottom	Lattice Assembly	each	4	7.18	\$ 1,183.92 \$		-	0 \$	-			
	Panel Bottom	Lattice Erection	each	5		\$ 1,519.02 \$	- \$	-	0 \$	-			
	Assemble Tops	Lattice Assembly	each	4		\$ 1,183.92 \$	- \$	-	0 \$	-			
	Top / Assembly Tower	Tower Topping	each 0	6	1.41	\$ 1,656.68 \$	2,343.08 \$	-	0 \$				
			each C			\$ - \$		-	0 \$	-			
			each			\$ - \$	- \$	-	0 \$	-			
			each C			\$ - \$	- \$	-	0 \$	-			
			each C			\$ - \$		-	0 \$	-			
	Tota	al Cost = \$ 2.407	per pound			\$	11,744.91 \$	-	\$	-			



NALCOR 350 kV HVdc Line Construction	ction Front 3 (Nev	wfoundland)					Crew Cost						Total Unit Cost	
nt				Units		Hours per							Manhours and	
Description				Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
								_		•	40.000.40		A 40.000.40	•
1 S1-D121 Assembly and Erection of +7.5 m			Total struct		0	EA			-	\$	13,622.13	\$ -	\$ 13,622.13	\$
S1-D121 Assembly and Erection of +7.5 m le Total Tower Weight With Guys and Ext. (lb) =		Total Tower Height(ft) =		Vg. 505573-4622- Section Weight (lb) =	43DD-0045, per 5659	ieg								
Site Preparation		0 ()	each	Section Weight (Ib) =	2		\$ 675.12	\$ - I:	\$ -	0 \$	-			
Haul		Site Preparation	each	0	1	2.38		1,051.37	\$ -	0 \$				
Setup Blocks		Hauling Blocking Crew	each	0	<u> </u>	2.30	-	\$ 1,031.37 S	\$ -	0 \$	-			
Assemble Bottom		Lattice Assembly	each	0		8.32		9.853.18	\$ -	0 \$	-			
Panel Bottom		Lattice Assembly Lattice Erection	each	0	5	0.02	,	5 - 5	\$ -	0 \$	-			
Assemble Tops		Lattice Assembly	each	0	4			- 5	\$ -	0 \$	_			
Top / Assembly Tower		Tower Topping	each	0		1.64		·	\$ -	0 \$	_			
Top / / toodingly fortor		Tower Topping	each	0		1.01			\$ -	0 \$	_			
			each	0					Y	0 \$	_			
			each	0			T	- !	T	0 \$	_			
			each	0				5 - 1	*	0 \$	_			
	Total Cost =	\$ 2.407	7 per pound	- 1			1	13,622.13	\$ -		-			
				•										
2 S1-D122 Assembly and Erection of +9 m le	leg extension for De	ead-End Tower	Total struct	ture count:	0	EA			\$ -	\$	13,761.43	\$ -	\$ 13,761.43	\$
S1-D122 Assembly and Erection of +9 m leg)2" as per dwc	. 505573-4622-43	BDD-0045, per le	g g					,		,	
Total Tower Weight With Guys and Ext. (lb) =	= 22869	Total Tower Height(ft) =	135	Section Weight (lb) =	5717									
Site Preparation		Site Preparation	each	0	2		\$ 675.12	\$ -	\$ -	0 \$	-			
Haul		Hauling	each	0	1	2.41	\$ 441.04	1,062.12	\$ -	0 \$	-			
Setup Blocks		Blocking Crew	each	0	3		\$ 281.84	- :	\$ -	0 \$	-			
Assemble Bottom		Lattice Assembly	each	0	4	8.41	\$ 1,183.92	9,953.93	\$ -	0 \$	_			
Panel Bottom		Lattice Erection	each	0	5		\$ 1,519.02	- :	\$ -	0 \$	_			
Assemble Tops		Lattice Assembly	each	0	4		\$ 1,183.92	- :	\$ -	0 \$	_			
Top / Assembly Tower	-	Tower Topping	each	0	6	1.66	\$ 1,656.68	2,745.37	\$ -	0 \$	-			
			each	0			\$ -	- :	\$ -	0 \$	-			
			each	0			\$ -	\$ -	\$ -	0 \$	-			
			each	0			-	- :	\$ -	0 \$	-			
			each	0			-		\$ -	0 \$	-			
	Total Cost =	\$ 2.407	each 7 per pound	ŭ			\$	13,761.43		0 \$	-			
	Total Cost =	\$ 2.407		ŭ			-	Ψ .						
Assembly and Erection of Dead-Er				ŭ			-	Ψ .						
3 S1-D123 Assembly and Erection of Dead-E	ind Tower Type " -End Tower Type "E	"E1" E1" Basic Body as	7 per pound Total struct	ture count:	16	EA	18	13,761.43		\$		\$ -	\$ 159,498.59	\$
	ind Tower Type " -End Tower Type "E' nd Tower Type "E1" E	"E1" E1" Basic Body as	7 per pound Total structure 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 t	ture count: 622-43DD-0007		_ EA	18	13,761.43	- \$ -	\$	-	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (Ib) =	End Tower Type " -End Tower Type "E- nd Tower Type "E-1" E	"E1" E1" Basic Body as	7 per pound Total struct lwg. 505573-46 121	ture count: 622-43DD-0007 Section Weight (lb) =	55056		O	13,761.43	\$ - \$ 2,551,977.46	\$	159,498.59	\$ <u>-</u>	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (Ib) = Site Preparation	End Tower Type " -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as Basic Body as per dv	7 per pound Total struc: lwg. 505573-46 121 each	ture count: 622-43DD-0007 Section Weight (lb) =	55056 2	2.00	\$ 675.12	13,761.43 1,350.24	\$ 2,551,977.46 \$ 21,603.92	\$ \$ 2 16 \$	- 159,498.59 1,350.24	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	End Tower Type " -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as Basic Body as per dv Total Tower Height(ft) =	Total struct lwg. 505573-46 121 each each	ture count: 622-43DD-0007 Section Weight (lb) =	55056 2 1	2.00 25.19	\$ 675.12 \$ 441.04	\$ 1,350.24 \$ 1,110.32 \$	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	159,498.59 1,350.24 11,110.32	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	End Tower Type " -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as Basic Body as per du Total Tower Height(ft) =	Total struct lwg. 505573-46 121 each each each	ture count: 622-43DD-0007 Section Weight (lb) = 16 16	55056 2 1 3	2.00 25.19 2.00	\$ 675.12 \$ 441.04 \$ 281.84	\$ 1,350.24 \$ 11,110.32 \$ 563.68	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,350.24 11,110.32 563.68	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul	End Tower Type " End Tower Type "E- nd Tower Type "E1" E 55056	"E1" E1" Basic Body as Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauting	Total struct lwg. 505573-46 121 each each each each	ture count: 622-43DD-0007 Section Weight (ib) = 16 16 16	55056 2 1 3 4	2.00 25.19	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92	\$ 1,350.24 \$ 1,110.32 \$	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	159,498.59 1,350.24 11,110.32	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (Ib) = Site Preparation Haul Setup Blocks	End Tower Type " -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	Total struct lwg. 505573-46	ture count: 622-43DD-0007 Section Weight (ib) = 16 16 16 16	55056 2 1 3 4 5	2.00 25.19 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02	\$ 1,350.24 \$ 11,110.32 \$ 563.68 \$ 95,856.40 \$ \$ -	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,350.24 11,110.32 563.68	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble	End Tower Type " -End Tower Type "E- nd Tower Type "E-1" E = 55056	"E1" E1" Basic Body as Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	Total struct lwg. 505573-4(ture count: 622-43DD-0007 Section Weight (ib) = 16 16 16 16 16	55056 2 1 3 4 5	2.00 25.19 2.00 80.97	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	\$ 1,350.24 \$ 11,110.32 \$ 563.68 \$ 95,856.40 \$ - \$ 5 -	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ -	\$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	1,350.24 11,110.32 563.68 95,856.40	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (lb) = Site Preparation Haul Setup Blocks Assemble Erect Tower	End Tower Type " -End Tower Type "E- nd Tower Type "E-1" E = 55056	"E1" E1" Basic Body as Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	Total struct lwg. 505573-4(ture count: 622-43DD-0007 Section Weight (ib) = 16 16 16 16 16	55056 2 1 3 4 5 4	2.00 25.19 2.00 80.97	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	\$ 1,350.24 \$ 11,110.32 \$ 563.68 \$ 95,856.40 \$ - \$ 563.68 \$ 26,437.95 \$ 26,437.95 \$ \$ 26,437.95 \$ \$ \$ 26,437.95 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ - \$ 423,007.15	\$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	1,350.24 11,110.32 563.68 95,856.40 - - 26,437.95	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks Assemble Erect Tower haul Insulators and Travellers	End Tower Type "E- -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Lattice Assembly	Total structures 505573-46 121 each each each each each each each each	ture count: 622-43DD-0007 Section Weight (lb) = 16 16 16 16 16 16	55056 2 1 3 4 5 4 6 7	2.00 25.19 2.00 80.97 15.96 3.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 636.64	\$ 1,350.24 \$ 11,110.32 \$ 563.68 \$ 95,856.40 \$ \$ \$ 26,437.95 \$ 1,909.91	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ - \$ 423,007.15 \$ 30,558.59	\$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	1,350.24 11,110.32 563.68 95,856.40 - - 26,437.95 1,909.91	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks Assemble Erect Tower haul Insulators and Travellers Hang Travellers	End Tower Type "E- -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Assembly Tower Topping	Total structives. 505573-46 121 each each each each each each each each	ture count: 622-43DD-0007 Section Weight (lb) = 16 16 16 16 16 16 16	55056 2 1 3 4 5 4 6 7	2.00 25.19 2.00 80.97 15.96 3.00 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ 636.64 \$ 1,444.07	\$ 1,350.24 1,110.32 5 563.68 5 95,856.40 5	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ - \$ 423,007.15 \$ 30,558.59 \$ 46,210.14	\$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16 \$ 16	1,350.24 11,110.32 563.68 95,856.40 - 26,437.95 1,909.91 2,888.13	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks Assemble Erect Tower haul Insulators and Travellers	End Tower Type "E- -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as per dv. Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Haul Travellers&Glass	Total structives. 505573-46 121 each each each each each each each each	ture count: 622-43DD-0007 Section Weight (lb) = 16 16 16 16 16 16 16 16	55056 2 1 3 4 5 4 6 7 8 13	2.00 25.19 2.00 80.97 15.96 3.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ 636.64 \$ 1,444.07 \$ 1,384.42	\$ 1,350.24 1,110.32 563.68 595,856.40 5	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ - \$ 423,007.15 \$ 30,558.59 \$ 46,210.14 \$ 310,111.12	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,350.24 11,110.32 563.68 95,856.40 - 26,437.95 1,909.91 2,888.13 19,381.95	\$ -	\$ 159,498.59	\$
3 S1-D123 Assembly and Erection of Dead-En S1-D123 Assembly and Erection of Dead-En Total Tower Weight With Guys and Ext. (ib) = Site Preparation Haul Setup Blocks Assemble Erect Tower haul Insulators and Travellers Hang Travellers	End Tower Type "E- -End Tower Type "E- nd Tower Type "E1" E = 55056	"E1" E1" Basic Body as per dv Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly Tower Topping Haul Travellers&Class Hang Travellers Deadends	Total structives. 505573-46 121 each each each each each each each each	ture count: 622-43DD-0007 Section Weight (lb) = 16 16 16 16 16 16 16 16 16	55056 2 1 3 4 5 4 6 7 8 13	2.00 25.19 2.00 80.97 15.96 3.00 2.00	\$ 675.12 \$ 441.04 \$ 281.84 \$ 1,183.92 \$ 1,519.02 \$ 1,656.68 \$ 636.64 \$ 1,444.07 \$ 1,384.42	\$ 1,350.24 1,110.32 563.68 595,856.40 5	\$ 2,551,977.46 \$ 21,603.92 \$ 177,765.14 \$ 9,018.95 \$ 1,533,702.44 \$ - \$ 423,007.15 \$ 30,558.59 \$ 46,210.14 \$ 310,111.12	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,350.24 11,110.32 563.68 95,856.40 - 26,437.95 1,909.91 2,888.13	\$ -	\$ 159,498.59	\$



	NALCOR 350 kV HVdc Line Construction Fron	t 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment		,	Units		Hours per							Manhours and	
tem	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
/::D124	S1-D124 Assembly and Erection of +4.5 m body exte	nsion for Dead-End Tower	Total structure count:	1	EA		\$	38,595.74	\$	38,595.74	\$ -	\$ 38,595.74	\$ -
	S1-D124 Assembly and Erection of +4.5 m body extensi												
	Total Tower Weight With Guys and Ext. (lb) = 158	51 Total Tower Height(ft) =	136 Section Weight (lb) =	15851							-		
	Site Preparation	Site Preparation	each 1	2		\$ 675.12 \$		-	1 \$	=			
	Haul	Hauling	each 1		7.68	\$ 441.04 \$	σ,σσσ.σσ φ	3,385.86		3,385.86			
	Setup Blocks	Blocking Crew	each 1			\$ 281.84 \$	T	-	1 \$	<u> </u>			
	Assemble Bottom	Lattice Assembly	each 1		23.31	\$ 1,183.92 \$		27,598.11		27,598.11			
	Panel Bottom	Lattice Erection	each 1	5		\$ 1,519.02 \$			1 \$	-			
	Assemble Tops	Lattice Assembly	each 1			\$ 1,183.92 \$			1 \$				
	Top / Assembly Tower	Tower Topping	each 1	· ·	4.59	\$ 1,656.68 \$	/-			7,611.77			
			each 1			\$ - \$		·	1 \$	-			
			each 1			\$ - \$	Y		1 \$	-			
			each 1			\$ - \$			1 \$				
	T-4-1 O4	Φ 0.405	odon			\$ - \$ \$		20 505 74	1 \$				
	Total Cost	= \$ 2.435	per pound			\$	38,595.74 \$	38,595.74	\$	38,595.74			
D40F	O4 D405 Assembly and English of 140 5 mg by decent	i for Bood Ford Towns	Total atministrate account.	6	EA		6	442 005 42	\$	72 000 00	•	£ 72.000.00	•
::D125	S1-D125 Assembly and Erection of +10.5 m body ext S1-D125 Assembly and Erection of +10.5 m body exten	ension for Dead-End Tower	o "E1" on par dua F0FF72 46		_ EA		D D	442,085.13	Ф	73,680.86	-	\$ 73,680.86)) -
	Total Tower Weight With Guys and Ext. (lb) = 303		156 Section Weight (lb) =	30336									
	Site Preparation	3 ()	each Section Weight (ib) =			\$ 675.1 2 \$	- \$		6 \$		1		
	Haul	Site Preparation	each 6			\$ 441.04 \$		37,783.63		6,297.27			
	Setup Blocks	Hauling	each 6			\$ 281.84 \$		37,703.03	6 \$	0,291.21			
	Assemble Bottom	Blocking Crew	each 6		44.61	\$ 1,183.92 \$	Ψ	316,898.43	7 7	52,816.41			
	Panel Bottom	Lattice Assembly Lattice Erection	each 6		44.01	\$ 1,519.02 \$		310,090.43	6 \$	52,610.41			
	Assemble Tops		each 6			\$ 1,183.92 \$		<u>-</u>	6 \$	-			
	Top / Assembly Tower	Lattice Assembly Tower Topping	each 6		8.79	\$ 1,656.68 \$		87,403.07		14,567.18			
	Top / Assembly Tower	Tower Topping	each 6		0.19	\$ - \$		-	6 \$	14,307.10			
			each 6		A	\$ - \$			6 \$				
			each 6		A 4	\$ - \$		_	6 \$	_			
			each 6			\$ - \$		_	6 \$	_			
	Total Cost	= \$ 2.429	per pound			\$	73,680.86 \$	442,085.13		73,680.86			
	Total Cook	Ų 2.120	por pourid				10,000.00 ψ	112,000.10	Ψ_	70,000.00			
··D126	S1-D126 Assembly and Erection of +0 m leg extension	on for Dead-End Tower	Total structure count:	0	EA		\$	-	\$	4,652.59	\$ -	\$ 4,652.59) \$ -
	S1-D126 Assembly and Erection of +0 m leg extension f	for Dead-End Tower Type "F1					•		-	.,	•	.,002100	•
	Total Tower Weight With Guys and Ext. (lb) = 773		121 Section Weight (lb) =	1933									
	Site Preparation	Site Preparation	each 0			\$ 675.12 \$	- \$	_	0 \$	_			
	Haul	Hauling	each 0		0.81	\$ 441.04 \$		-	0 \$	-			
	Setup Blocks	Blocking Crew	each 0	3		\$ 281.84 \$		-	0 \$	-			
	Assemble Bottom	Lattice Assembly	each 0	4	2.84	\$ 1,183.92 \$	3,365.32 \$	-	0 \$	-			
	Panel Bottom	Lattice Erection	each 0	5		\$ 1,519.02 \$		-	0 \$	-			
	Assemble Tops	Lattice Assembly	each 0	4		\$ 1,183.92 \$	- \$	-	0 \$	-			
	Top / Assembly Tower	Tower Topping	each 0	6	0.56	\$ 1,656.68 \$	928.18 \$	-	0 \$	-			
		2	each 0			\$ - \$		-	0 \$	-			
			each 0			\$ - \$	- \$	-	0 \$	_			
			each 0			\$ - \$	- \$	-	0 \$	-			
			each 0			\$ - \$	- \$	-	0 \$	-			
	Total Cost	= \$ 2.407	per pound			\$	4,652.59 \$	-	\$	-			
											•		



	NALCOR 350 kV HVdc Line Construction Front 3 (I	Newfoundland)				Crew Cost						Total Unit Cost	
nt			Units		Hours per							Manhours and	
	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
													•
	S1-D127 Assembly and Erection of +1.5 m leg extension of	or Dead-End Tower	Total structure count:	0	EA		\$	-	\$	6,203.46	-	\$ 6,203.46	\$
	S1-D127 Assembly and Erection of +1.5 m leg extension for Total Tower Weight With Guys and Ext. (lb) = 10309	Total Tower Height(ft) =	126 Section Weight (lb) =		∍g								
Г	Site Preparation	Site Preparation		2577		\$ 675.12 \\$	- \$		0 \$	- 1			
	Haul	Site Preparation Hauling		1		\$ 441.04 \$	Ψ		0 \$				
	Setup Blocks	Hauling Blocking Crew		3		\$ 281.84 \$	- \$		0 \$				
	Assemble Bottom	Lattice Assembly) 4	3.79	\$ 1,183.92 \$	т -		0 \$				
	Panel Bottom	Lattice Assembly Lattice Erection	each		5.15	\$ 1,519.02 \$	- \$		0 \$	-			
L	Assemble Tops	Lattice Assembly		4		\$ 1,183.92 \$	- \$	-	0 \$				
	Top / Assembly Tower	Tower Topping		6	0.75	\$ 1,656.68 \$	1,237.57 \$	_	0 \$				
ŀ	, , , , , , , , , , , , , , , , , , ,					\$ - \$		-	0 \$				
ŀ)		\$ - \$			0 \$				
Ī			each ()		\$ - \$		-	0 \$	-			
			each (\$ - \$		-	0 \$	-			
-	Total Cost =	\$ 2.407	per pound	•		\$	6,203.46 \$	-	\$	<u>-</u>			
В	S1-D128 Assembly and Erection of +3 m leg extension for	Dead-End Tower	Total structure count:	0	EA		\$	-	\$	8,161.60	\$ -	\$ 8,161.60	\$
	S1-D128 Assembly and Erection of +3 m leg extension for De	ead-End Tower Type "E			_								
	Total Tower Weight With Guys and Ext. (lb) = 13563	Total Tower Height(ft) =	131 Section Weight (lb) =	3391									
	Site Preparation	Site Preparation		2		\$ 675.12 \$		_	0 \$				
	Haul	Hauling	each (1	1.43	\$ 441.04 \$	629.92 \$	<u> </u>	0 \$	-			
						00404	Φ.						
į	Setup Blocks	Blocking Crew	each (,		\$ 281.84 \$	- \$		0 \$				
	Assemble Bottom	Blocking Crew Lattice Assembly	each (4		\$ 1,183.92 \$	5,903.46 \$		0 \$	-			
	Assemble Bottom Panel Bottom		each (5	4.99	\$ 1,183.92 \$ \$ 1,519.02 \$	5,903.46 \$ - \$	-	0 \$	-			
=	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly	each (4 5 4	4.99	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$	5,903.46 \$ - \$ - \$	-	0 \$ 0 \$ 0 \$	- - -			
=	Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection	each (0 4 5 5 4 6	4.99	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,183.92 \$ \$ 1,656.68 \$	5,903.46 \$ - \$ - \$ 1,628.22 \$	- - - -	0 \$ 0 \$ 0 \$ 0 \$	- - - -			
=	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each (ea	5 4 0 4 0 6	4.99	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$	5,903.46 \$ - \$ - \$ 1,628.22 \$ - \$	-	0 \$ 0 \$ 0 \$ 0 \$	- - - -			
=	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each (4 5 4 6	0.98	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$	5,903.46 \$ - \$ - \$ 1,628.22 \$ - \$ - \$	-	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - -			
=	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly	each (ea	4 5 4 6	0.98	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ - \$	- - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - -			
=	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each (ea	4 5 4 6	0.98	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -			
=	Assemble Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping	each (ea	4 5 4 6	0.98	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ - \$	- - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -			
	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost =	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407	each each each each each each each each	4 5 4 6	0.98	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5,903.46 \$ \$ 1,628.22 \$ \$ \$ \$ \$ 8,161.60 \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	•	¢ 0.022.00	c
•	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension f	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407	each each each each each each each each	4 5 0 4 0 6	4.99 0.98	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - -	\$ -	\$ 9,922.08	\$
•	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension for S1-D129 Assembly and Erection of +4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly and Erection of -4.5 m leg extension for S1-D129 Assembly Erection of -4.5 m leg extension for S1-D129 Assembly Erection of -4.5 m leg extension for S1-D129 Assembly Erection of -4.5 m leg extension for S1-D129 Assembly Erection of -4.5 m leg extension for S1-D129 Assembly Erection of -4.5 m leg extension for S1-D129 Assembly Erection of -4.5 m leg extension for S1-D129 Assembly Erection Of -4.5 m leg extension for S1-D129 Assembly Erection Of -4.5 m leg extension for S1-D129 Assembly Erection Of -4.5 m leg extension for S1-D129 Assembly Erection Of -4.5 m leg extension for S1-D129 Assembly Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of -4.5 m leg extension Erection Of	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 For Dead-End Tower Dead-End Tower Type "	each each each each each each each each	4 5 0 4 0 6 0 0 32 2-43DD-0007, per le	4.99 0.98	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68	5,903.46 \$ \$ 1,628.22 \$ \$ \$ \$ \$ 8,161.60 \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - -	\$ -	\$ 9,922.08	\$
)	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension for S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (lb) = 16488	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 For Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) =	each each each each each each each each	4 5 4 6 6 7 -43DD-0007, per le 4122	4.99 0.98	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,056.68 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$	5,903.46 \$ - \$ - \$ 1,628.22 \$ - \$ - \$ - \$ - \$ 8,161.60 \$	317,506.56	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ 0 \$ \$	- - - - - - - - - 9,922.08	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (Ib) = 16488 Site Preparation	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 For Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Site Preparation	each each each each each each each each	32 -43DD-0007, per le	4.99 0.98	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$	- - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$	- - - - - - - 9,922.08	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of the standard standar	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 for Dead-End Tower Dead-End Tower Total Tower Height(ft) = Site Preparation Hauling	each (32 -43DD-0007, per le 4122 2 2	4.99 0.98	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ - \$ 765.80 \$	317,506.56	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - - - 9,922.08	\$ -	\$ 9,922.08	\$
; ; ; ;	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (Ib) = 16488 Site Preparation	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 For Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Site Preparation	each (32 -43DD-0007, per le 4122 2 1	4.99 0.98	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ - \$ 765.80 \$ - \$	- - - - - - - 317,506.56	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - - - 9,922.08	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of the standard of the st	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Or Dead-End Tower Dead-End Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly	each each (each each each each each each each each	32 -43DD-0007, per le 4122 2 2 1 2 3 2 4	4.99 0.98 EA	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ - \$ 765.80 \$ - \$	- - - - - - - 317,506.56	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - - - 9,922.08	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (lb) = 16488 Site Preparation Haul Setup Blocks Assemble Bottom	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 for Dead-End Tower Dead-End Tower Total Tower Height(ft) = Site Preparation Hauling Blocking Crew	each each each each each each each each	32 -43DD-0007, per le 4122 2 2 1 2 3 2 4 2 5	4.99 0.98 EA	\$ 1,183.92 \$ \$ 1,519.02 \$ \$ 1,183.92 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ 765.80 \$ 7,176.85 \$	- - - - - - - 317,506.56 24,505.50	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ 0 \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ 0 \$ \$ \$ \$ \$ \$ \$ 0 \$	- - - - - - - 9,922.08	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (lb) = 16488 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.407 or Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Silve Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each (each each each each each each each each	32 2-43DD-0007, per le 4122 2 2 1 2 3 2 4 2 5	4.99 0.98 EA	\$ 1,183.92 \$ 1,519.02 \$ \$ 1,519.02 \$ \$ 1,656.68 \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ - \$ 765.80 \$ 7,176.85 \$ - \$	- - - - - - - 317,506.56 - 24,505.50	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 9,922.08 - 765.80 - 7,176.85 -	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (Ib) = 16488 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Assembly Tower Topping \$ 2.407 Or Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Site Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection	each each (each each each each each each each each	32 -43DD-0007, per le 4122 2 1 2 3 2 4 2 5 4 4 2 6	4.99 0.98 EA	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,183.92	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ - \$ 765.80 \$ - \$ 7,176.85 \$ - \$ 1,979.43 \$	317,506.56 24,505.50 229,659.24	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 765.80 - - 7,176.85 - - 1,979.43	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (Ib) = 16488 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.407 or Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Silve Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each	32 -43DD-0007, per le 4122 2 2 3 2 4 2 5 2 4 2 6	4.99 0.98 EA eg 1.74 6.06	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,519.02 \$ 1,183.92	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ \$ 765.80 \$ 7,176.85 \$ - \$ 1,979.43 \$ - \$	- - - - - - - 317,506.56 - 24,505.50 - 229,659.24 - - 63,341.82	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - 9,922.08 - 765.80 - 7,176.85 - - 1,979.43 -	\$ -	\$ 9,922.08	\$
9	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (Ib) = 16488 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.407 or Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Silve Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	32 -43DD-0007, per le 4122 2 2 1 2 3 2 4 2 5 2 6	4.99 0.98 EA eg 1.74 6.06	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,0556.68 \$ 1,183.92 \$ 1,183.92 \$ 1,183.92 \$ 1,656.68 \$ 1,	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ \$ 765.80 \$ - \$ 7,176.85 \$ - \$ 1,979.43 \$ - \$ - \$ - \$ - \$	- - - - - - - - - - 24,505.50 - - 229,659.24 - - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 765.80 - 7,176.85 - - 1,979.43 - -	\$ -	\$ 9,922.08	\$
; ; ; ;	Assemble Bottom Panel Bottom Assemble Tops Top / Assembly Tower Total Cost = S1-D129 Assembly and Erection of +4.5 m leg extension of S1-D129 Assembly and Erection of +4.5 m leg extension for Total Tower Weight With Guys and Ext. (Ib) = 16488 Site Preparation Haul Setup Blocks Assemble Bottom Panel Bottom Panel Bottom Assemble Tops	Lattice Assembly Lattice Erection Lattice Erection Lattice Assembly Tower Topping \$ 2.407 or Dead-End Tower Dead-End Tower Type " Total Tower Height(ft) = Silve Preparation Hauling Blocking Crew Lattice Assembly Lattice Erection Lattice Assembly	each each each each each each each each	32 -43DD-0007, per le 4122 2 2 1 2 3 2 4 2 5 2 6	4.99 0.98 EA eg 1.74 6.06	\$ 1,183.92 \$ 1,519.02 \$ 1,183.92 \$ 1,656.68 \$ 1,183.92	5,903.46 \$ - \$ 1,628.22 \$ - \$ - \$ - \$ 8,161.60 \$ \$ 765.80 \$ - \$ 7,176.85 \$ - \$ 1,979.43 \$ - \$ - \$ - \$	317,506.56 24,505.50 	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- - - - - - - - 765.80 - 7,176.85 - - 1,979.43 - -	\$ -	\$ 9,922.08	\$



	NALCOR 350 kV HVdc Line Construction Front 3	(Newfoundland)				Crew Cost						Total Unit Cost	
Payment			Units		Hours per							Manhours and	
tem	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-D130 Assembly and Erection of +6 m leg extension		Total structure count:	8	EA		\$	97,546.56	\$	12,193.32	-	\$ 12,193.32	2 \$ -
	S1-D130 Assembly and Erection of +6 m leg extension for				I								
	Total Tower Weight With Guys and Ext. (lb) = 20263		141 Section Weight (lb) =	5066			1.				7		
	Site Preparation	Site Preparation	each 8	_		\$ 675.12 \$		-	8 \$	-	<u> </u>		
	Haul	Hauling	each 8		2.13	\$ 441.04 \$	0 σσ φ	7,528.75		941.09			
	Setup Blocks	Blocking Crew	each 8		7.15	\$ 281.84 \$	T	-	8 \$	-	<u> </u>		
	Assemble Bottom	Lattice Assembly	each 8	•	7.45	\$ 1,183.92 \$	-,	70,557.50		8,819.69			
	Panel Bottom Assemble Tops	Lattice Erection	each 8			\$ 1,519.02 \$			8 \$	-	-		
		Lattice Assembly	040			\$ 1,183.92 \$			8 \$	- 0.400.54			
	Top / Assembly Tower	Tower Topping	each 8	•	1.47	\$ 1,656.68 \$, + -	19,460.31		2,432.54			
			each 8			\$ - \$ \$		-	8 \$	-			
			each 8			•	T		8 \$	<u> </u>			
			each 8			\$ - \$ \$ - \$		-	8 \$		-		
	Total Cost =	\$ 2.407	per pound			φ - φ \$		97,546.56		12,193.32	J		
	Total Cost =	φ 2.407	per pourid			Ψ	12,193.32 4	91,040.00	Ψ	12, 193.32			
::D131	S1-D131 Assembly and Erection of +7.5 m leg extension	n for Doad-End Tower	Total structure count:	4	EA		C	56,611.18	\$	14,152.79	¢ _	\$ 14,152.79	
ונוט	S1-D131 Assembly and Erection of +7.5 m leg extension for						4	30,011.10	Ψ	1-1,132.73	·	Ψ 14,152.73	- ·
	Total Tower Weight With Guys and Ext. (Ib) = 23519		146 Section Weight (lb) =	5880	-9								
	Site Preparation	Site Preparation	each 4			\$ 675.12 \$	- \$		4 \$		1		
	Haul	Hauling	each 4			\$ 441.04 \$		4.369.31		1,092.33			
	Setup Blocks	Blocking Crew	each 4			\$ 281.84 \$	- \$	- 1,000.01	4 \$	- 1,002.00	1		
	Assemble Bottom	Lattice Assembly	each 4	·	8.65	\$ 1,183.92 \$		40,948.07	· · · ·	10,237.02			
	Panel Bottom	Lattice Erection	each 4			\$ 1,519.02 \$		-	4 \$	-			
	Assemble Tops	Lattice Assembly	each 4	4		\$ 1,183.92 \$	- \$	_	4 \$	-			
	Top / Assembly Tower	Tower Topping	each 4	6	1.70	\$ 1,656.68 \$	2,823.45 \$	11,293.80) 4 \$	2,823.45			
		· · ·	each 4			\$ - \$	- \$		4 \$	-			
			each 4			\$ - \$	- \$	-	4 \$	-			
			each 4			\$ - \$	- \$	-	4 \$	-			
			each 4			\$ - \$	- \$	-	4 \$	-			
	Total Cost =	\$ 2.407	per pound			\$	14,152.79 \$	56,611.18	\$	14,152.79			
											='		
::D132	S1-D132 Assembly and Erection of +9 m leg extension	for Dead-End Tower	Total structure count:	20	EA		\$	322,218.85	\$	16,110.94	-	\$ 16,110.94	4 \$ -
	S1-D132 Assembly and Erection of +9 m leg extension for												
	Total Tower Weight With Guys and Ext. (lb) = 26773	Total Tower Height(ft) =	151 Section Weight (lb) =	6693							7		
	Site Preparation	Site Preparation	each 20			\$ 675.12 \$		-	20 \$	-	_		
	Haul	Hauling	each 20		2.82	\$ 441.04 \$,	24,869.20		1,243.46			
	Setup Blocks	Blocking Crew	each 20			\$ 281.84 \$	7	-	20 \$	-			
	Assemble Bottom	Lattice Assembly	each 20		9.84	\$ 1,183.92 \$		233,067.74		11,653.39			
	Panel Bottom	Lattice Erection	each 20			\$ 1,519.02 \$	τ	-	20 \$	-			
	Assemble Tops	Lattice Assembly	each 20			\$ 1,183.92 \$		-	20 \$	-			
	Top / Assembly Tower	Tower Topping	each 20		1.94	\$ 1,656.68 \$	-,-···· +	64,281.91		3,214.10			
			each 20	_		\$ - \$		-	20 \$	-	-		
			each 20		_	\$ - \$		-	20 \$	-	-		
			each 20			\$ - \$		-	20 \$	-	-		
		A 0.40 -	each 20			\$ - \$		-	20 \$	-	J		
	Total Cost =	\$ 2.407	per pound			\$	16,110.94	322,218.85	\$	16,110.94			



Payment Units Hours per Manhours and		NALCOR 350 kV HVdc Line Constru	ction Front 3 (Newfoundland)					Crew Co	st							Total Unit Cost	
Visto St-E Installation of Wires and OPGW (St-Ex) Total structure count: ## ## ## ## ## ## ## ## ## ## ## ## #	Payment		,	।			Hours per										
Since Installation of Counterpoise with, connection with tower grounding Total structure counts 10 miles 10 mil	Item	Description			Total	Crew No.	unit	Hourly Rate		Unit Cost	Subtotal	I Unit	its	Unit Cost	Materials	Materials	Total Materials
St.		O4 E leastallation of Mines and OBG	NW (04 F)														
St. Et Installation of Coordeprobee wire, commotion will bower growth flower growth				Tatal atmost		470	1/84				A 2 445 (200.00	•	7 004 04	^	A 7,004,04	•
Final Section Proceedings Proceedings Proceedings Procedure Proc	V::E01			i otai struct	ure count:	470	KIVI				\$ 3,445,6	88.086	\$	7,331.24	•	\$ 7,331.24	\$
Hard		51-E1 installation of Counterpoise wire, con	nection with tower grounding		Assume	1 2	km/day										
Proc Counterpress now serve each 470 43 9.17 8 750.18 6 6.770.30 8 5.273 96.563 470 3 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70 1 6.775.80 9.274 70		Haul	Wire Houling	each				\$ 4	05.51 \$	62 22	\$ 29.2	243 70 4	470 \$	62 22			
Connect at bower			·														
			·					•			\$ 184.5	531 74 4	470 \$				
		- Common at towns.	Ground Feeling				1100	\$									
mach 470 \$ \$ \$ 470 \$ \$ \$ 470 \$ \$ \$ \$ \$ \$ \$ \$ \$								\$	- \$			- 4	470 \$	-			
Sept 470 S				each				\$			\$						
EEQ ST-E2 Installation of ground rods at crossing obstacles in soil and rock Total structure count: Med May Med				each	470			\$	- \$	-	\$	- 4	470 \$	-			
				each				\$	- \$	- /	\$	- 4	470 \$	_			
S S S S S S S S S S				each	470			\$	- \$		\$			-			
S 1-E2 Installation of ground rods at crossing obstacles in soil and rock Haul and install				each	470			\$	- \$		\$	- 4	470 \$	-			
St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation of ground rods at crossing obstacles in soil and rock St-E2 Installation				each	470			\$	- \$			- 4	470 \$				
Hauf and install		•		·					\$	7,331.24	\$ 3,445,6	88.086	\$	7,331.24			
S1-E2 Installation of ground rods at crossing obstacles in soil and rock																	
Hauf and install				Total struct	ure count:	460	EA				\$ 86,2	267.49	\$	187.54	\$ -	\$ 187.54	\$
Beach 460 S S S 460 S S S 460 S S S S S S S S S		S1-E2 Installation of ground rods at crossing	g obstacles in soil and rock														
each 460 S S S 460 S S S 460 S S S S S S S S S											_			1			
each 460		Haul and install	Counterpoise Instal		460	43	0.25	\$ 7				267.49 4	460 \$				
Beach 460 S S S 460 S S S 460 S S S S 460 S S S S S S S S S								\$				- 4	460 \$				
Beach 460								\$									
Beach 460								\$									
Beach 460 S S S C 460 S C C C C C C C C C					460			\$				- 4	460 \$				
Each 460 \$ - \$ - \$ - 460 \$ - \$ - \$ 460 \$ - \$ - \$ - \$ 460 \$ - \$ - \$ 460 \$ - \$ - \$ 460 \$ - \$ - \$ 460 \$ - \$ - \$ 460 \$ 460 460 \$ 460 460 \$ 460 \$ 460 \$ 460 \$ 460 \$ 460 \$ 460								\$				- 4	460 \$				
Each 460 \$ - \$ - \$ - 460 \$ - \$ - \$ 460 \$ - \$ 460 \$ - \$ 460 \$ 460 \$ 460							A	\$			•						
Each 460 \$ \$ \$ \$ \$ \$ \$ \$ \$								\$			•	- 4	460 ¢				
E03 S1-E3 Tower Footing resistance measurement Total structure count: 470 EA \$ 187.54 \$ 86,267.49 \$ 187.54 \$ 187.54 \$ 86,267.49 \$ 187.54 \$					460			Ψ .				- 4	460 ¢				
\$ 187.54 \$ 86.267.49 \$ 187.54 \$ 86.267.49 \$ 130.87 \$ \$ - \$ 130.87 \$ \$ 125 Tower Footing resistance measurement Test Tower ground								Ψ			•						
### S1-E3 Tower Footing resistance measurement S1-E3 Tower Footing resistance measurement Total structure count:				Eacii	400			Φ			•						
Test Tower ground Ground Testing each 470 25 0.50 \$ 261.75 \$ 130.87 \$ 61,510.58 470 \$ 130.87 \$ 61,510.58 470 \$ 5 5 5 5 5 5 5 5 5									Ψ	107.54	Ψ 00,2	207.43	Ψ	107.54			
S1-E3 Tower Footing resistance measurement Test Tower ground Ground Testing each 470 25 0.50 \$ 261.75 \$ 130.87 \$ 61,510.58 470 \$ 130.87 \$ 61,510.58 470 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	··F03	S1-F3 Tower Footing resistance measure	ment	Total struct	ure count:	470	FΔ				\$ 61.5	510 58	\$	130 87	s -	\$ 130.87	\$
Test Tower ground Ground Testing each 470 25 0.50 \$ 261.75 \$ 130.87 \$ 61,510.58 470 \$ 130.87 - 470 \$ - \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - 47	00										V .,,		•		•	V 100101	•
each 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - - 470 \$ - <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>																	
each 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - - 470 \$ - <th></th> <th>Test Tower ground</th> <th>Ground Testing</th> <th>each</th> <th>470</th> <th>25</th> <th>0.50</th> <th>\$ 2</th> <th>61.75 \$</th> <th>130.87</th> <th>\$ 61,5</th> <th>510.58 4</th> <th>470 \$</th> <th>130.87</th> <th></th> <th></th> <th></th>		Test Tower ground	Ground Testing	each	470	25	0.50	\$ 2	61.75 \$	130.87	\$ 61,5	510.58 4	470 \$	130.87			
each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ -			-	each				\$				- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - \$ - 470 \$ -				each	470			\$	- \$	-	\$	- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ -				each	470			\$	- \$	-	\$	- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ -				each				\$	- \$		\$	- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - \$ - 470 \$ -								\$	- \$	-	\$	- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ -						4		\$	Ŧ	-	\$	- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ - each 470 \$ - \$ - 470 \$ -								\$	•		*	- 4	470 \$	-			
each 470 \$ - \$ - 470 \$ -								\$				- 4	470 \$	-			
					470			\$	7		\$			-			
\$ 130.87 <u>\$ 61,510.58</u> <u>\$ 130.87</u>				each	470			\$			•		470 \$				
									\$	130.87	\$ 61,5	510.58	\$	130.87			



N	NALCOR 350 kV HVdc Line Construction	Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
nt			Units			Hours per							Manhours and	
D	Description		To	tal (Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
_	NA E4 04 Installation of Oscillation on Ottob	·	OD Tatal atmostume a com			1/84		c		•	70 202 67	•	e 70.202.07	•
	61-E4 S1 - Installation of Conductor on Steel To 61-E4 S1 - Installation of Conductor on Steel Tow				0	KM		\$	-	\$	70,302.67	-	\$ 70,302.67	\$
3	1350m per reel / Average h		200 km Assume	•	1 1	l km/day								
Н	Haul	Wire Hauling	each	0	9	7.30	\$ 405.51 \$	2,960.84 \$		0 \$	_			
	Prepare Pull site	Pull Site Prep	each	0	10		\$ 1,282.13 \$		_	0 \$	_			
	nstall Rock anchor for pull site 50%	Rock Foundations	each	0	36	0.99	\$ 920.20 \$			0 \$	_			
	Pull In Conductor & Sag	Stringing	each	0	11	10.00	\$ 5,977.88 \$		-	0 \$	_			
			each	0			\$ - \$			0 \$	-			
S	Sock installation by Helicopter	HeliSockInstall	each	0	34	1.00	\$ 1,905.50 \$	1,905.50 \$	-	0 \$	-			
			each	0			\$ - \$	- \$	-	0 \$	-			
			each	0			\$ - \$	- \$	-	0 \$	-			
			each	0			\$ - \$	т		0 \$				
			each	0			\$ - \$		-	0 \$				
			each	0			\$ - \$		-	0 \$	-			
							\$	70,302.67 \$	-	\$	-			
	S2-E4 S2 - Installation of Conductor on Steel To				0	KM		\$	-	\$	89,645.00	-	\$ 89,645.00	\$
S	62-E4 S2 - Installation of Conductor on Steel Tow				0.0) lema/alass								
П	1350m per reel / Average Haul		700 km Assume	0	9	km/day	\$ 405.5 1 \$	8,110.14 \$		0 6		1		
	Prepare Pull site	Wire Hauling	each each	0	10		\$ 1,282.1 3 \$		-	0 \$	<u> </u>			
	nstall Rock anchor for pull site 100%	Pull Site Prep	each	0	36	1.98	\$ 920.20 \$		-	0 \$	<u> </u>			
	ristali Nock aricriol foi pull site 100 /6	Rock Foundations	each	0	11	12.22	\$ 5,977.88 \$			0 \$	<u> </u>			
	Pull In Conductor & Sag	de la la				12.22	Ψ 3,911.00 Ψ				<u>-</u>			
	Pull In Conductor & Sag	Stringing		0			¢ ¢	Φ		2 In				
Р	<u> </u>		each	0			\$ - \$ \$ 1,005.50 \$		<u> </u>	0 \$	<u> </u>			
Р	Pull In Conductor & Sag Sock installation by Helicopter	Stringing HeliSockInstall	each each	0	34		\$ - \$ \$ 1,905.50 \$	1,905.50 \$		0 \$	-			
Р	<u> </u>		each	- v				1,905.50 \$ - \$						
Р	<u> </u>		each each	- v				1,905.50 \$		0 \$				
S	Sock installation by Helicopter	HeliSockInstall	each each each	0		1.00		1,905.50 \$ - \$		0 \$		\$ -	\$ 86.555.42	■ \$
2 S	<u> </u>	HeliSockInstall Towers - 3633.0 kcmil 110/7 ACS	each each each	nt:	34			1,905.50 \$ - \$ 89,645.00 \$	- - -	0 \$	- - -	\$ -	\$ 86,555.42	\$
2 S	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To	HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C	each each each	nt:ooth poles	0	1.00		1,905.50 \$ - \$ 89,645.00 \$	- - -	0 \$	- - -	\$ -	\$ 86,555.42	\$
2 S S	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul	HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C	each each each SR Total structure cour	nt:ooth poles	0	1.00 KM km/day 12.38		1,905.50 \$ - \$ 89,645.00 \$ \$ 5,020.56 \$	- - -	0 \$ \$	- - -	\$ -	\$ 86,555.42	\$
2 S HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site	HeliSockinstall Fowers - 3633.0 kcmil 110/7 ACS rers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4	each each each SR Total structure cour Conductor, complete for b	nt:ooth poles	0 0.9 9	1.00 KM 0 km/day 12.38 3.70	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$ - \$ 89,645.00 \$ \$ 5,020.56 \$ 4,748.63 \$	- - -	0 \$ 0 \$ \$ \$	- - - 86,555.42	\$ -	\$ 86,555.42	\$
2 S HPI	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site nstall Rock anchor for pull site 66%	HeliSockinstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each	nt:ooth poles	0 0.9 9 10 36	1.00 KM 9 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$ - \$ 89,645.00 \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$	- - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 86,555.42	\$ -	\$ 86,555.42	\$
2 S S HP In	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site	HeliSockinstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Sile Prep	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each	nt:ooth poles	0 0.9 9	1.00 KM 0 km/day 12.38 3.70	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$	1,905.50 \$ - \$ 89,645.00 \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$	- - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	86,555.42	\$ -	\$ 86,555.42	\$
2 S HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average helicol Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Site Prep Rock Foundations	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each	nt:ooth poles	0 0.9 9 10 36 11	1.00 KM km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$	1,905.50 \$	- - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	86,555.42 - - - -	\$ -	\$ 86,555.42	\$
2 S HPITP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site nstall Rock anchor for pull site 66%	HeliSockInstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Site Prep Rock Foundations	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt:ooth poles	0 0.9 9 10 36	1.00 KM 9 km/day 12.38 3.70 1.98	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$ \$ 89,645.00 \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$ \$ 1,905.50 \$	- - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - -	\$ -	\$ 86,555.42	\$
2 S HPITP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average helicol Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	HellSockinstall Flowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Site Prep Rock Foundations Stringing	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each	nt:ooth poles	0 0.9 9 10 36 11	1.00 KM km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$	1,905.50 \$	- - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - -	\$ -	\$ 86,555.42	\$
2 S HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average helicol Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag	HellSockinstall Flowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Site Prep Rock Foundations Stringing	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt:ooth poles	0 0.9 9 10 36 11	1.00 KM km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$ \$ 89,645.00 \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$ \$ 1,905.50 \$	- - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - -	\$ -	\$ 86,555.42	\$
2 S S HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tos 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average helicopter Prepare Pull site 1350m per reel / Average helicopter Prepare Pull site 1350m per reel / Average helicopter Prepare Pull site 1350m per reel / Average helicopter	HeliSockinstall Fowers - 3633.0 kcmil 110/7 ACS Vers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Sile Prep Rock Foundations Stringing HeliSockinstall	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt:ooth poles ;	0 0.9 9 10 36 11	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$	- - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - - -			
2 S S HP I S S S S S S S S S S S S S S S S S S	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Helicopter Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Bock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow	HeliSockinstall Fowers - 3633.0 kcmil 110/7 ACS Pers - 3633.0 kcmil 110/7 ACSR C Haul distance = 4 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockinstall	each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt:ooth poles s	0 0.9 9 10 36 11	1.00 KM km/day 12.38 3.70 1.98 12.22	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$	- - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - -		\$ 86,555.42 \$ 73,271.23	
2 S S HP I S S S S S S S S S S S S S S S S S S	Gock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site 1351 Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 64-E4 S4 - Installation of Conductor on Steel Tow	MellSockinstall MellSockin	each each each cach SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt:ooth poles eo	0 0.9 9 10 36 11 34	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM	\$ 1,905.50 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,905.50 \$	- - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - - -			
2 S S HP F S S	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average H	HeliSockinstall Towers - 3633.0 kcmil 110/7 ACS	each each each each Conductor, complete for by the seach each each each each each each each	nt:ooth poles soo	0 0 0.9 9 10 36 11 34	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ 1,905.50 \$ \$. \$	1,905.50 \$ 89,645.00 \$ \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$ - \$ 1,905.50 \$ - \$ 86,555.42 \$	- - - - - - - - - - - 21,248,656.73	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -			
2 S HP HP S S	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul	MeliSockinstall MeliSockin	each each each each Conductor, complete for beach each each each each each each each	nt: poth poles 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.9 9 10 36 11 34	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$	1,905.50 \$ 89,645.00 \$ \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$ - \$ 1,905.50 \$ - \$ 86,555.42 \$ \$ 5,020.56 \$	- - - - - - - - - - 21,248,656.73	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 86,555.42 - - - - - - - - - - - - - - - - - - -			
2 S S HP S S HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site	MellSockinstall MellSockinstall	each each each each SR Total structure cour Conductor, complete for beach each each each each each each each	nt: poth poles 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.9 9 10 36 11 34 290 1.1	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ 1,905.50 \$ \$ - \$ \$ \$ \$ 1,925.51 \$ \$ 1,282.13 \$	1,905.50 \$	- - - - - - - - - - 21,248,656.73 1,455,963.17 1,377,103.63	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -			
2 S HP HP N N S S HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100%	MellSockinstall MellSockinstall	each each each each SR Total structure cour Conductor, complete for beach each each each each each each each	nt: poth poles	34 0 0.9 9 10 36 11 34 290 1.1 9 10 36	1.00 KM 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70 1.98	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ 1,905.50 \$ \$ - \$ \$ 1,282.13 \$ \$ 920.20 \$	1,905.50 \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -			
2 S HP HP N N S S HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site	MellSockinstall MellSockin	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt: poth poles	0 0.9 9 10 36 11 34 290 1.1	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ 1,905.50 \$ \$ - \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$	1,905.50 \$ 89,645.00 \$ \$ 89,645.00 \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$	- - - - - - - - - - 21,248,656.73 1,455,963.17 1,377,103.63 527,129.06 17,335,865.87	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
2 S S HP HP S S S HP HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	HeilSockinstall	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt: poth poles s	34 0 0.9 9 10 36 11 34 290 1.1 9 10 36 11	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.83 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$	1,905.50 \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
2 S S HP HP S S S HP HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Installation of Conductor on Steel Tow 1350m per reel / Average Haul Prepare Pull site Install Rock anchor for pull site 100%	MellSockinstall MellSockinstall	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt: poth poles (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	34 0 0.9 9 10 36 11 34 290 1.1 9 10 36	1.00 KM 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70 1.98	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.83 \$ \$ - \$ \$ 1,905.50 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 1,282.13 \$	1,905.50 \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
2 S S HP HP S S S HP HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	HeilSockinstall	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt: poth poles (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	34 0 0.9 9 10 36 11 34 290 1.1 9 10 36 11	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$	1,905.50 \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
2 S S HP HP S S S HP HP HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	HeilSockinstall	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt: poth poles (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	34 0 0.9 9 10 36 11 34 290 1.1 9 10 36 11	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$ \$ - \$	1,905.50 \$	21,248,656.73 1,455,963.17 1,377,103.63 527,129.06 17,335,865.87 552,595.00	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				
2 S S HP	Sock installation by Helicopter 63-E4 S3 - Installation of Conductor on Steel To 63-E4 S3 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 66% Pull In Conductor & Sag Sock installation by Helicopter 64-E4 S4 - Installation of Conductor on Steel Tow 1350m per reel / Average H Haul Prepare Pull site Install Rock anchor for pull site 100% Pull In Conductor & Sag	HeilSockinstall	each each each each SR Total structure cour Conductor, complete for b 400 km Assume each each each each each each each eac	nt: poth poles (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	34 0 0.9 9 10 36 11 34 290 1.1 9 10 36 11	1.00 KM 2 km/day 12.38 3.70 1.98 12.22 1.00 KM km/day 12.38 3.70 1.98 10.00	\$ 1,905.50 \$ \$ - \$ \$ \$ 405.51 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ 1,905.50 \$ \$ - \$	1,905.50 \$ 89,645.00 \$ \$ 89,645.00 \$ \$ \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 73,063.04 \$ - \$ 1,905.50 \$ - \$ 86,555.42 \$ \$ \$ \$ 5,020.56 \$ 4,748.63 \$ 1,817.69 \$ 59,778.85 \$ - \$ 1,905.50 \$ - \$ 1,905.50 \$ - \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				



Valard Construction LP

	n Front 3 (Newfoundland)	1 le 4-			Harris	Crew Cost						Total Unit Cost	
Description		Units	Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
OF E4 OF Installation (O. I. t. O. I. t.	T	D. Tatal atmosts	t-	400	1/84			44 004 000 40		00 000 04	<u> </u>	£ 00.000.01	
S5-E4 S5 - Installation of Conductor on Steel S5-E4 S5 - Installation of Conductor on Steel To				180	KM		\$	11,921,389.46	\$	66,229.94	5 -	\$ 66,229.94	\$
1350m per reel / Average		00 km Assu	•		1.2 km/day								
Haul	Wire Hauling	each	180	9	7.30	\$ 405.51 \$	2,960.84 \$	532,952.03	180 \$	2,960.84			
Prepare Pull site	Pull Site Prep	each	180	10	3.70	\$ 1,282.13 \$		854,753.98	180 \$	4.748.63			
Install Rock anchor for pull site 100%	Rock Foundations	each	180	36		\$ 920.20 \$		327,183.56	180 \$	1,817.69			
Pull In Conductor & Sag	Stringing	each	180	11	9.17	\$ 5,977.88 \$		9,863,509.89		54,797.28			
<u>-</u>		each	180		9111	\$ - \$		-	180 \$	-			
Sock installation by Helicopter	HeliSockInstall	each	180	34	1.00	\$ 1,905.50 \$	1,905.50 \$	342,990.00	180 \$	1,905.50			
· · · · · · · · · · · · · · · · · · ·			•			\$	66,229.94 \$	11,921,389.46	\$	66,229.94			
S1-E5 Installation of Conductor on Steel Towe	ers - 1192.5 kcmil 54/19 ACSR	Total structure c	ount:	0	KM		\$		\$	44,488.49	\$ -	\$ 44,488.49	\$
S1-E5 Installation of Conductor on Steel Towers	- 1192.5 kcmil 54/19 ACSR Grackl	le Conductor, comple	te for both el	ectrodes									
1800m per reel / Average	Haul distance = 3	00 km Assu	ıme	•	1.8 km/day								
Haul	Wire Hauling	each	0	9		\$ 405.51 \$	1,496.51 \$	-	0 \$	-			
Prepare Pull site	Pull Site Prep	each	0	10	2.50	\$ 1,282.13 \$		-	0 \$	-			
Pull In Conductor & Sag		each	0			\$ - \$		-	0 \$	-			
Install Rock anchor for pull site 66%	Rock Foundations	each	0	36	1.47	\$ 920.20 \$	1,010.00	-	0 \$	-			
Pull In Conductor & Sag	Stringing	each	0	11	6.11	\$ 5,977.88 \$		-	0 \$	-			
Splicing Time for DE Crew		each	0			\$ - \$	- \$	-	0 \$	-			
Sock installation by Helicopter	HeliSockInstall	each	0	34	1.00	\$ 1,905.5 0 \$		-	0 \$	-			
		each	0			\$ - \$		-	0 \$	-			
		each	0			\$ - \$		-	0 \$	-			
		each	0			\$ - \$		-	0 \$	-			
		each	0			\$ - \$		-	0 \$	-			
S1-E6 Installation of Conductor on Steel Towers		Total structure c		0 ctrodes	KM	\$	44,488.49 \$	-	<u>\$</u>	63,593.22	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average	- 1590.0 kcmil 54/19 ACSR Falcon	n Conductor, complet 00 km Assu	e for both ele ime	ctrodes	1.3 km/day		\$				\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling	n Conductor, complet 00 km Assu each	e for both ele ime 0	ctrodes	1.3 km/day 15.00	\$ 405.51 \$	6,082.60 \$	-	0 \$	63,593.22	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 7	n Conductor, complet 00 km Assu each each	e for both ele	ctrodes	1.3 km/day	\$ 405.51 \$ \$ 1,282.13 \$	6,082.60 \$ 3,205.33 \$	-	0 \$	63,593.22	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep	n Conductor, complet 00 km Assu each each each	e for both ele	ctrodes 9 10	1.3 km/day 15.00 2.50	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$	6,082.60 \$ 3,205.33 \$ - \$	- - - -	0 \$	63,593.22	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100%	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations	n Conductor, complet 00 km Assu each each each each	e for both ele	9 10 36	1.3 km/day 15.00 2.50 1.98	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$	- - - - -	0 \$ 0 \$ 0 \$ 0 \$	63,593.22	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep	n Conductor, complet 00 km Assu each each each each each	e for both ele	ctrodes 9 10	1.3 km/day 15.00 2.50	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 5,977.88 \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$	- - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - -	\$ <u>-</u>	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing	n Conductor, complete (100 km Assurated (100 km	e for both ele	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$	- - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - -	\$ <u>-</u>	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations	n Conductor, complete (100 km Assured	e for both ele	9 10 36	1.3 km/day 15.00 2.50 1.98	\$ 405.51 \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$	- - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - -	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing	n Conductor, complete (100 km Assured	e for both ele	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ - \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - - -	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing	n Conductor, complete (100 km Assume	e for both ele	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - - - -	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing	n Conductor, complet 00 km Assu each each each each each each each each	e for both ele	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ - \$ \$ \$ 1,905.50 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - - - - -	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing	n Conductor, complete (100 km Assume	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - - - -	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing	n Conductor, complet 00 km Assu each each each each each each each each	e for both elements	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$	- - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - - - - -	\$ -	\$ 63,593.22	\$
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 76 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockinstall	n Conductor, complete to the c	e for both elements	9 10 36 11	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ 63,593.22 \$	- - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall	conductor, completed to the complete of the co	e for both ele	9 10 36 11 34	1.3 km/day 15.00 2.50 1.98 8.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 - - - - - - - - - -		\$ 63,593.22 \$ 28,198.24	
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles S1-E7 Installation of Conductor on Wood Poles	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall PS - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR Grackle	conductor, completed to the complete of the co	e for both ele	9 10 36 11 34	1.3 km/day 15.00 2.50 1.98 8.46 1.00	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ - \$ 63,593.22 \$	- - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall PS - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR Grackle	conductor, completed to the complete of the co	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 10 36 11 34	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$	- - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall PS - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR Grackles Haul distance = 6	Conductor, complet Complete Comple	e for both ele	9 10 36 11 34 0 octrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ \$ 920.20 \$ \$ 5,977.88 \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$	- - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, completed to the complete of the co	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46	\$ 405.51 \$ \$ 1,282.13 \$ \$ - \$ \$ 920.20 \$ 5,977.88 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$ 3,205.33 \$	-	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22 			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HeliSockInstall PS - 1192.5 kcmil 54/19 ACSR 1192.5 kcmil 54/19 ACSR Haul distance = 60 Wire Hauling	Conductor, complet Conductor, complet	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ 5,977.88 \$ \$ 1,905.50 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$		0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, completed to the complete of the co	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$	-	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, completed to the complete of the co	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$ - \$ - \$	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, completed to km Assume a cach a c	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, complet Conduc	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$ \$ 1,905.50 \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$	6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, completed to the complete of the co	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ \$ 5,977.88 \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ - \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, complet Oo km Assu each each each each each each each eac	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ 920.20 \$ \$ 5,977.84 \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	63,593.22			
S1-E6 Installation of Conductor on Steel Towers 1800m per reel / Average Haul Prepare Pull site Pull In Conductor & Sag Install Rock anchor for pull site 100% Pull In Conductor & Sag Splicing Time for DE Crew Sock installation by Helicopter S1-E7 Installation of Conductor on Wood Poles 1800m per reel / Average Haul Prepare Pull site	- 1590.0 kcmil 54/19 ACSR Falcon Haul distance = 70 Wire Hauling Pull Site Prep Rock Foundations Stringing HellSockInstall Pes - 1192.5 kcmil 54/19 ACSR - 1192.5 kcmil 54/19 ACSR - Haul distance = 60 Wire Hauling Pull Site Prep	Conductor, complet Oo km Assu each each each each each each each eac	e for both eleme 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ctrodes 9 10 36 11 34 0 ctrodes	1.3 km/day 15.00 2.50 1.98 8.46 1.00 KM 1.5 km/day 17.46 2.50	\$ 405.51 \$ 1,282.13 \$ \$ 920.20 \$ \$ 5,977.88 \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$	\$ 6,082.60 \$ 3,205.33 \$ - \$ 1,817.69 \$ 50,582.10 \$ - \$ 1,905.50 \$ - \$ - \$ 63,593.22 \$ \$ 7,080.28 \$ 3,205.33 \$ 17,912.63 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- - - - - - - - - - - - - - - - - - -	0 \$ 0	63,593.22			



	NALCOR 350 kV HVdc Line Construction Fror	nt 3 (Newfoundland)				Crew Cost						Total Unit Cost	
ayment			Units		Hours per							Manhours and	
em	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
			-		1/14					A 00.054.00 A		A 00.054.00	•
	S1-E8 Installation of Conductor on Wood Poles - 15 S1-E8 Installation of Conductor on Wood Poles - 1590.		Total structure count:	0	KM			-		\$ 30,954.03 \$	-	\$ 30,954.03	\$
	1800m per reel / Average Haul of		600 km Assume		3 km/day								
	Haul	Wire Hauling		0 9		\$ 405.51	\$ 7,080.28	\$ -	0	\$ -			
	Prepare Pull site	Pull Site Prep		0 10	2.50	\$ 1,282.13	\$ 3,205.33		0				
	Slack Stringing	Slack Stringing		0 50	8.46		\$ 20.668.42		0				
				0	57.75	, , , , , , , , , , , , , , , , , , , ,	\$ -		0				
			each	0		\$ -	\$ -	\$ -	0	\$ -			
			each	0		\$ -	\$ -	\$ -	0				
				0		-	-	\$ -	0				
				0		<u> </u>	\$ -		0				
				0			\$ -		0				
				0		•	\$ -		0				
			each	0			\$ -		0				
							\$ 30,954.03	\$ -		-			
E09	S1-E9 Installation of ADSS on Wood Poles		Total structure count:	0	KM			\$ -		\$ 12,167.46 \$		\$ 12,167.46	¢
	S1-E9 Installation of ADSS on Wood Poles		rotal structure count.		KIVI			-		φ 12,107.40 φ		φ 12,107.40	Ψ
	1.2 kg/m and	66	880 kg / reel Assume	2	1 km/day								
	Haul	Wire Hauling		0 9	1.13	\$ 405.51	\$ 456.20	\$ -	0	\$ -			
	Prepare Pull site	Pull Site Prep		0 10	3.15	\$ 1,282.13		\$ -	0				
	Pull In OPGW & Sag	OPGW Install	each	0 15	2.75	\$ 2,790.88			0	\$ -			
	•		each	0		\$ -	\$ -		0				
			each	0		\$ -	\$ -	\$ -	0	\$ -			
				0		\$ -	\$ -	\$	0				
				0		\$ -	\$ -	*	0				
				0			\$ -	•	0				
				0					0				
				0			\$	•	0				
			each	0		-	\$ - 12,167.46		0				
							12,107.40	-		\$ -			
E10	S1-E10 ADSS splicing and tests including loss analy	veie	Total structure count:	0	EA			\$ -		\$ 5,562.88 \$	_	\$ 5,562.88	\$
	S1-E10 ADSS splicing and tests including loss analysis	S .	Total of dotal o count.					♥		Ψ 0,002.00 Ψ		ψ 0,002.00	•
	Assume number of splice points =		1 @ 2	4 Minutes/Fibre =	9.6	0 Hours per 24 fibre splice							
	Haul and install Fibre Splice Box	Tie -in		0 12	4.00		\$ 2,705.21	\$ -	0	\$ -			
				0		Ψ	\$ -		0				
	Splice and test Fibre	OPGW Splice		0 42	9.60	\$ 297.67			0				
				0			\$ -		0				
			each			· ·	\$ -	•	0				
			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0			\$ -	*	0	•			
				0		,	\$ - · \$ - ·	•	0	•			
				0			\$ -		0				
				0			\$ -		0				
				0			\$ -		0				
			54511				\$ 5,562.88			\$ -			
							. 3,002.00						



	NALCOR 350 kV HVdc Line Cons	truction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment	D		Units		Hours per			0.11.1				Manhours and	
tem	Description		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-E11 ADSS end to end test S1-E11 ADSS end to end test		Total structure count:	0	LS		\$	-	\$	7,144.18	-	\$ 7,144.18	\$
	Test	OPGW Splice	each 0		24.00	\$ 297.67 \$			0 \$				
			each 0			\$ - \$			0 \$				
			each 0			\$ - \$		$\overline{}$					
			each 0			\$ - \$		-	- 1 - 1				
			each 0			\$ - \$ \$ - \$							
			each 0			\$ - \$ \$ - \$							
			each 0			\$ - \$							
			each 0			\$ - \$			0 \$	_			
			each 0			\$ - \$							
			each 0)		\$ - \$		-					
			<u> </u>	•		\$	7,144.18 \$	-	\$	-			
	S1-E12 S1 - Installation of OPGW S1-E12 S1 - Installation of OPGW			0	_		\$		\$	15,181.18	\$ -	\$ 15,181.18	\$
			30 kg / reel Assume		.5 km/day	105.54	740.04 0						
	Haul Dropper Bull site	Wire Hauling	each 0			\$ 405.5 1 \$ 1,282.1 3 \$							
	Prepare Pull site Pull In OPGW & Sag	Pull Site Prep	each 0		3.15 3.14	\$ 1,282.1 3 \$ 2,790.88 \$		-					
	Pull In OPGW & Sag	OPGW Install	each 0		3.14		- \$	-					
			each 0	1		\$ - \$							
	Sock installation by Helicopter	HeliSockInstall	each 0		0.86	\$ 1,905.50 \$							
	Cook installation by Floricoptor	Helioodanistali	each 0		0.00	\$ - \$	- \$	_					
			each 0			\$ - \$	7						
			each 0)	A	\$ - \$			0 \$	-			
			each 0			- \$	- \$	-	0 \$	-			
			each 0			\$ - \$		-	0 \$	-			
	S2-E12 S2 - Installation of OPGW S2-E12 S2 - Installation of OPGW		Total structure count:	0	KM	\$	15,181.18 <u>\$</u>	-	_		\$ -	\$ 18,202.60	\$
		1.2 kg/m and 668	30 kg / reel Assume		3 km/day								
	Haul	Wire Hauling	each 0			\$ 405.51 \$	2,027.53 \$	=	0 \$	-			
	Prepare Pull site	Pull Site Prep	each 0	10	3.15	\$ 1,282.13 \$	4,036.34 \$	-	0 \$	-			
	Pull In OPGW & Sag	OPGW Install	each 0		3.67	\$ 2,790.88 \$		=					
			each 0			\$ - \$		-					
			each 0			\$ - \$		-					
	Sock installation by Helicopter	HeliSockInstall	each 0		1.00	\$ 1,905.50 \$,	-					
			each 0			- \$	- \$ 18,202.60 \$	-		-			
	S3-E12 S3 - Installation of OPGW S3-E12 S3 - Installation of OPGW		Total structure count:	0	KM		\$	-	\$	17,430.21	\$ -	\$ 17,430.21	\$
		1.2 kg/m and 668	80 kg / reel Assume		3 km/day								
	Haul	Wire Hauling	each 0			\$ 405.51 \$, ,	=					
	Prepare Pull site	Pull Site Prep	each 0			\$ 1,282.13 \$		-					
	Pull In OPGW & Sag	OPGW Install	each 0		3.67	\$ 2,790.88 \$		-					
			each 0			\$ - \$							
	Sock installation by Helicopter			34	1.00	\$ - \$ \$ 1,905.50 \$	*	<u>-</u>					
	OUCK INSTALLATION BY MELICOPTER	HeliSockInstall	each 0		1.00	\$ 1,905.50 \$							
			Cacii			- \$ \$			_				
						Ψ	11, 100.21 ψ		Ψ				



	NALCOR 350 kV HVdc Line Construction Front 3 (N	Newfoundland)					Crew Cost						Total Unit Cost	
t			L	Jnits		Hours per			0.1				Manhours and	T
	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S4-E12 S4 - Installation of OPGW		Total struct	ure count:	290	KM			\$ 5,054,761.07	\$	17,430.21	¢ _	\$ 17,430.21	e e
	S4-E12 S4 - Installation of OPGW		Total Struct	ure count.	230	_ KW			Ψ 3,034,701.07	Ψ	17,430.21	Ψ -	Ψ 17,430.21	Ψ
	1.2 kg/m and	668	0 kg / reel	Assume	3	km/day								
	Haul	Wire Hauling	each	290	9	3.10	\$ 405.51	\$ 1,255.14	\$ 363,990.79	290 \$	1,255.14			
	Prepare Pull site	Pull Site Prep	each	290	10	3.15	\$ 1,282.13	\$ 4,036.34	\$ 1,170,538.09	290 \$	4,036.34			
	Pull In OPGW & Sag	OPGW Install	each	290	15	3.67	\$ 2,790.88	\$ 10,233.23	\$ 2,967,637.19					
			each	290				\$ -		290 \$				
			each	290					\$ -	290 \$				
	Sock installation by Helicopter	HeliSockInstall	each	290	34	1.00	,	\$ 1,905.50						
			each	290			Φ		\$ -	290 \$				
			each each	290 290			\$ -	\$ - \$ -	\$ -	290 \$ 290 \$				
			each	290			T	\$ -		290 \$	<u>-</u>			
ļ			Cacii	290			<u> </u>	\$ 17,430.21		\$				
			1 1					Ψ 17,400.21	φ 0,004,701.01	Ψ	17,400.21			
	S5-E12 S5 - Installation of OPGW		Total struct	ure count:	180	KM			\$ 3,044,750.59	\$	16,915.28	\$ -	\$ 16,915.28	\$
	S5-E12 S5 - Installation of OPGW					_			5,511,155100	•	10,010.20	•	* 10,010.20	•
	1.2 kg/m and	668	0 kg / reel	Assume	3	km/day								
	Haul	Wire Hauling	each	180	9	1.83	\$ 405.51	\$ 740.21	\$ 133,238.01	180 \$	740.21			
	Prepare Pull site	Pull Site Prep	each	180	10	3.15	\$ 1,282.13							
	Pull In OPGW & Sag	OPGW Install	each	180	15	3.67	\$ 2,790.88			180 \$				
			each	180				\$ -	•	180 \$	-			
			each	180		1.00	-	\$ -		180 \$				
	Sock installation by Helicopter	HeliSockInstall	each	180	34	1.00		\$ 1,905.50		180 \$				
			each	180			\$ -	\$ -	·	180 \$				
				100										
			each	180			\$ -		\$ -	180 \$				
			each	180				\$ -	\$ -	180 \$	=			
							\$ -	\$ - ·	\$ - \$ -	180 \$ 180 \$				
			each each	180 180			\$ -	\$ - \$ - \$ 16,91 <mark>5.28</mark>	\$ - \$ - \$ 3,044,750.59	180 \$ 180 \$ \$	- - 16,915.28			
	S1-E13 OPGW Continuity tests before and after stringing		each	180 180		LS	\$ -	\$ - \$ - \$ 16,91 <mark>5.28</mark>	\$ - \$ -	180 \$ 180 \$ \$	- - 16,915.28	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing		each each Total struct	180 180		LS	\$ -	\$ - \$ - \$ 16,91 <mark>5.28</mark>	\$ - \$ - \$ 3,044,750.59	180 \$ 180 \$ \$	- - 16,915.28	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	each each Total struct	180 180 ure count:	1		\$	\$ - \$ - \$ 16,915.28	\$ - \$ - \$ 3,044,750.59 \$ 268,621.09	180 \$ 180 \$ \$	- 16,915.28 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing		each each Total struct	180 180 ure count:	1 42		\$ 297.67	\$ - \$ - \$ 16,915.28 \$ 268,621.09	\$ - \$ - \$ 3,044,750.59 \$ 268,621.09	180 \$ 180 \$ \$ \$	- 16,915.28 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	Total struct 4 each each each	180 180 ure count:	1 42		\$ 297.67	\$ - \$ - \$ 16,915.28 \$ 268,621.09 \$ -	\$ - \$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09	180 \$ 180 \$ \$ \$	- 16,915.28 268,621.09 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	Total struct 4 each each each each	180 180 ure count:	1 42		\$ 297.67 \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ -	180 \$ 180 \$ \$ \$ \$ \$ \$ 1 \$ \$ 1 \$ \$ 1 \$ \$ 1 \$ \$ 1 \$ \$ 1 \$ \$ 1 \$	268,621.09 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	Total struct 4 each each each each each each	180 180 ure count:	1 42		\$ 297.67 \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ - \$ - \$ - \$ -	180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	268,621.09 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	Total struct 4 each each each each	180 180 ure count:	1 42		\$ 297.67 \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ -	180 \$ 180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	268,621.09 268,621.09 	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	each each each each each each each each	180 180 ure count:	1 42		\$ 297.67 \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ - \$ - \$ - \$ -	180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	268,621.09 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	ls = 9	each each each each each each each each	180 180 ure count:	1 42		\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ -	180 \$ 180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	268,621.09 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	Is = 9 OPGW Splice	each each each each each each each each	180 180 ure count:	1 42		\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	180 \$ 180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 16,915.28 268,621.09 268,621.09 - - - - - - - - -	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel	Is = 9 OPGW Splice	each each each each each each each each	180 180 180 ure count:	1 42		\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	268,621.09 268,621.09	\$ -	\$ 268,621.09	\$
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel Test	Is = 9 OPGW Splice	each each each each each each each each	180 180 180 ure count:	1 42	902.40	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 16,915.28 268,621.09 268,621.09 - - - - - - - - - - - - - - - - - - -			
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel Test S1-E14 OPGW splicing and tests including loss analysis	Is = 9 OPGW Splice	each each each each each each each each	180 180 180 ure count:	1 42		\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 16,915.28 268,621.09 268,621.09 - - - - - - - - -		\$ 268,621.09 \$ 6,277.30	
	S1-E13 OPGW Continuity tests before and after stringing Assume number of reel Test	Is = 9 OPGW Splice	each each each each each each each each	180 180 180 ure count:	1 42	902.40	\$ 297.67 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 16,915.28 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ 3,044,750.59 \$ 268,621.09 \$ 268,621.09 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	180 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 16,915.28 268,621.09 268,621.09 - - - - - - - - - - - - - - - - - - -			
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Į.	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Un		
t .		Units	<u>.</u>	Hours per			0.14.7.1				Manhou		
L	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Mate	erials Tota	l Materials
	S1-E15 OPGW end to end test	Total structure count:	1	LS		\$	28,576.71	\$	28,576.71	¢	- \$ 2	8,576.71 \$	
	S1-E15 OPGW end to end test	Total structure count.	•			Ψ	20,570.71	Ψ	20,570.71	Ψ	Ψ 2	ο,570.71 ψ	
Ē	Test OPGW Splice	each	1 42	96.00	\$ 297.67 \$	28,576.71 \$	28,576.71	1 \$	28,576.71				
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<u> </u>		'			\$		28,576.71	\$	28,576.71				
;	S1-F Miscellaneous Tower Attachments and Accessories (S1-Fx)												
,	S1-F1 Install 18" Aerial marker cones	Total structure count:	15	EA		\$	10,144.53	\$	676.30	\$	- \$	676.30 \$	
;	S1-F1 Install 18" Aerial marker cones												
r-						0=0 co. l c	42						
μ	Haul and Install Tie-in	each 15		1.00	\$ 676.30 \$	676.30 \$	10,144.53		676.30				
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						- \$		15 \$					
					\$ - \$	- \$	-	15 \$	-				
	S1-G Framing and Setting of Wood Poles (S1-Gx)	each 15	5		\$ - \$	676.30 \$	10,144.53	15 \$	676.30				
,	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing	each 15 Total structure count:		EA	\$ - \$	- \$	-	15 \$	-	\$ 2,300).00 \$	7,323.96 \$	
;	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055	each 15 Total structure count:	5		\$ - \$	676.30 \$	10,144.53	15 \$	676.30	\$ 2,300	0.00 \$	7,323.96 \$	
; ;	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 Wood pole with crossarm and V brace. Wire assembly on extension bracket	each 15 Total structure count: 73-4633-4ZDD-0011	0	EA	\$ - \$	- \$ 676.30 \$	- 10,144.53 -	15 \$	- 676.30 5,023.96	\$ 2,300).00 \$	7,323.96 \$	
; ; !	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul	each	0	EA 2.50	\$ - \$ \$ \$ \$ 441.04 \$	- \$ 676.30 \$ \$ 1,102.60 \$	- 10,144.53 - -	15 \$ \$ \$	5,023.96	\$ 2,300).00 \$	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 5055 Wood pole with crossarm and V brace. Wire assembly on extension bracket	each	0	EA 2.50	\$ - \$	- \$ 676.30 \$ \$ 1,102.60 \$ 1,421.04 \$	- 10,144.53 -	15 \$	- 676.30 5,023.96	\$ 2,300).00 \$	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Hauling Frame the Structure Wood Assembly	each	0 1 48	2.50 2.00	\$ - \$ \$ \$ \$ 441.04 \$ \$ 710.52 \$	- \$ 676.30 \$ \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$	- 10,144.53 - - -	15 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,023.96	\$ 2,300).00 \$ ·	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection	each	0 1 2 3 48 49 0 49	2.50 2.00 1.50	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$	- 10,144.53 - - - -	15 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5,023.96	\$ 2,300).00 \$ ·	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection	each	0 0 1 0 48 0 49 0 12	2.50 2.00 1.50 1.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$	- 10,144.53 - - - -	15 \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,023.96 - - - -	\$ 2,300).00 \$	7,323.96 \$	
\ \ \ \	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection	each	0 1 2 3 48 49 0 12	2.50 2.00 1.50 1.00	\$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 676.30 \$ \$ - \$ \$ \$ - \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$	- 10,144.53 - - - - - -	15 \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,023.96 	\$ 2,300	0.00 \$	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection	each	0 1 2 3 48 3 49 3 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2.50 2.00 1.50 1.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 676.30 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$	- 10,144.53 - - - - - - -	15 \$ \$ \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	5,023.96	\$ 2,300	0.00 \$	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection	each	0 1 2 3 48 3 49 3 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2.50 2.00 1.50 1.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$	- 10,144.53 - - - - - - - -	15 \$ \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	5,023.96 	\$ 2,300	0.00 \$	7,323.96 \$	
\ \ 	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection	each	0 1 2 3 48 3 49 3 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2.50 2.00 1.50 1.00	\$ - \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 676.30 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$	- 10,144.53 - - - - - - -	15 \$ \$ \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	5,023.96	\$ 2,300	0.00 \$	7,323.96 \$	
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Frection Tie in Tie -in	each	0 1 0 48 0 49 0 12	2.50 2.00 1.50 1.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$	- 10,144.53 - - - - - - - -	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 676.30 5,023.96				
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;; \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Frecton Tie in Tie -In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid	each 15 Total structure count: 73-4633-4ZDD-0011 each (count) each (count) each (count) each (count) each (count) each (count) each (count) rotal structure count: Drawing 505573-4633-4ZDD-le anchor each (count)	0 0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 12	EA 2.50 2.00 1.50 1.00 EA	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ 676.30 \$ - \$ \$ - \$ \$ - \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$	- 10,144.53 - - - - - - - -	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	- 676.30 5,023.96				
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Tie in Te-In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Hauling Frame the Structure Wood Assembly	each 15 Total structure count: 73-4633-4ZDD-0011 each (count) each (count) each (count) each (count) each (count) each (count) each (count) rotal structure count: Drawing 505573-4633-4ZDD-each (count) each (count) each (count)	0 1 2 3 48 3 49 3 3 12 3 3 3 3 49 3 3 3 3 3 3 3 3 3 3 3 3 3 3	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 2.00	\$ 441.04 \$ 710.52 \$ 441.04 \$ \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$	- 10,144.53	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 676.30 5,023.96 - - - - - - - - - - - - - - - - - - -				
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection Tie in Tie -In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Frame the Structure Wood Assembly Set Wood Frection	each 15 Total structure count: 73-4633-4ZDD-0011 each (eac	0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$	- 10,144.53	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 676.30 5,023.96				
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Tie in Te-In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Anchoring Anchor Crew	each 15 Total structure count: 73-4633-4ZDD-0011 each (eac	0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$	- 10,144.53	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 676.30 5,023.96				
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Frame the Structure Wood Assembly Set Wood Erection Tie in Tie -In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Frame the Structure Wood Assembly Set Wood Frection	each 15 Total structure count: 73-4633-4ZDD-0011 each (eac	0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ - \$ - \$ - \$ - \$ - \$ \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$	- 10,144.53	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 676.30 5,023.96 - - - - - - - - - - - - - - - - - - -				
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Tie in Te-In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Anchoring Anchor Crew	each 15 Total structure count: 73-4633-4ZDD-0011 each (eac	0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ \$ 676.30 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ - \$	- 10,144.53	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 676.30 5,023.96 - - - - - - - - - - - - - - - - - - -				
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Tie in Te-In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Anchoring Anchor Crew	each 15 Total structure count: 73-4633-4ZDD-0011 each (eac	0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ \$ 75.5 \$ 1.216.00 \$ 75.5 \$ 1.216.00 \$ 1.216.00 \$ 1.216.00	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ - \$ - \$	- 10,144.53	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	7,820.91				
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 50557 Wood pole with crossarm and V brace. Wire assembly on extension bracket Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Tie in Te-In S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Wood pole with crossarm and V brace. Wire assembly on extension bracket. One sid Haul Hauling Frame the Structure Wood Assembly Set Wood Erection Anchoring Anchor Crew	each 15 Total structure count: 73-4633-4ZDD-0011 each (eac	0 1 0 48 0 49 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 2.00 1.50 1.00 EA 2.50 2.00 1.50 4.00 1.00	\$ 441.04 \$ 710.52 \$ 1,216.00 \$ \$ 676.30 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$	- \$ 676.30 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 676.30 \$ - \$ - \$ 5,023.96 \$ 1,102.60 \$ 1,421.04 \$ 1,824.01 \$ 2,796.95 \$ 676.30 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- 10,144.53	15 \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	- 676.30 5,023.96 - - - - - - - - - - - - - - - - - - -				



TWILE OF TOO IN TIVE EITHE OF ISE	ruction Front 3 (Newfoundland)	l laita		Hause	Crew Cost						Total Unit Cost	
Description		Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
S1-G3 Framing and Setting of Single Po S1-G3 Framing and Setting of Single Pole Wood pole Heavy angle 4 anchors , asser	Heavy angle (10 - 30 deg) with Guys as p	Total structure count: per Drawing 505573-4633-4Z	0 DD-0020	_ EA		\$	•	\$	16,922.27	\$ 2,300.00	\$ 19,222.27	\$
Haul	Hauling	each	0 1	2.50	\$ 441.04 \$	1,102.60 \$		0 \$	-			
Frame the Structure	Wood Assembly	each	0 48	3.00	\$ 710.52 \$	2,131.57 \$		0 \$	-			
Set	Wood Erection	each	0 49	1.50	\$ 1,216.00 \$	1,824.01 \$	-	0 \$	-			
Anchoring	Anchor Crew	each	0 35	16.00	\$ 699.24 \$	11,187.79 \$	-	0 \$	-			
Tie in	Tie -in	each	0 12	1.00	\$ 676.30 \$	676.30 \$		0 \$	-			
		each	0		\$ - \$	- \$	-	0 \$	-			
		each	0		\$ - \$	- \$	-	0 \$	_			
		each	0		\$ - \$	- \$	-	0 \$	_			
		each	0		\$ - \$	- \$	-	0 \$	-			
		•	•	· ·	\$	16,922.27 \$	-	\$	-			
S1-G4 Framing and Setting of Single Po S1-G4 Framing and Setting of Single Pole Single pole DE 90 degree, 6 anchors, jum	Dead-end (30 - 90 deg) with Guys as per	Total structure count: Drawing 505573-4633-4ZDD	0 0-0021	EA		\$	·	\$	32,277.98	\$ 2,300.00	\$ 34,577.98	\$
Haul	Hauling	each	0 1	2.50	\$ 441.04 \$	1,102.60 \$	-	0 \$	-			
Frame the Structure	Wood Assembly		0 48	6.00	\$ 710.52 \$	4,263.13 \$		0 \$	-			
Set	Wood Erection		0 49		\$ 1,216.00 \$	1,824.01 \$	_	0 \$	_			
Anchoring	Anchor Crew	each	0 35	24.00	\$ 699.24 \$	16,781.69 \$	-	0 \$	_			
Dead end	Deadends		0 13		\$ 1,384.42 \$		_	0 \$	_			
		each	0		\$ - \$			0 \$	_			
			0		\$ - \$		_	0 \$	_			
			•		Ψ			Ψ				
		each	0		\$ - \$	- \$	_	0 \$	-			
		GGGII	0		\$ - \$ \$ - \$	- \$	-	0 \$	-			
S1-G5 Framing and Setting of Single Pole S1-G5 Framing and Setting of Single Pole Single pole floating DF w 2 anchors		each Total structure count:	0		\$ - \$	- \$	-	0 \$	-	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors	Floating Dead-end (0 - 1 deg) with Guys	Total structure count: as per Drawing 505573-4633	0	EA	\$ - \$	- \$ 32,277.98 \$	-	0 \$	21,090.19	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul	Floating Dead-end (0 - 1 deg) with Guys	Total structure count: as per Drawing 505573-4633	0 -4ZDD-0013	EA 2.50	\$ - \$ \$ \$	- \$ 32,277.98 \$ \$ 1,102.60 \$	-	\$	21,090.19	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly	Total structure count: as per Drawing 505573-4633 each each each	0 -4ZDD-0013 0 1 0 48	EA 2.50 6.00	\$ - \$ \$ \$ \$ 441.04 \$ 710.52 \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$	-	0 \$ \$ \$ 0 \$ 0 \$	21,090.19	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection	Total structure count: as per Drawing 505573-4633 each each each each	0 -4ZDD-0013 0 1 0 48 0 49	2.50 6.00 1.50	\$ - \$ \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$	- - - -	0 \$ \$ \$ 0 \$ 0 \$ 0 \$	21,090.19	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection Anchor Crew	Total structure count: as per Drawing 505573-4633 each each each each each	0 -4ZDD-0013 0 1 0 48 0 49 0 35	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$	- - - - - - -	0 \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$	21,090.19	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection	each Total structure count: as per Drawing 505573-4633 each each each each each each each	0 -4ZDD-0013 0 1 0 48 0 49 0 35	2.50 6.00 1.50	\$ - \$ \$ \$ \$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$	- - - - - - - - -	0 \$ \$ \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	21,090.19 - - - -	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection Anchor Crew	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$	- - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - -	\$ 2,300.00	\$ 23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection Anchor Crew	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13	2.50 6.00 1.50 8.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$	- - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,090.19 - - - - - -	\$ 2,300.00	23,390.19	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring	Floating Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection Anchor Crew	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0	2.50 6.00 1.50 8.00	\$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$	- - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - -	\$ 2,300.00	\$ 23,390.15	\$
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end	Hauling Hood Assembly Wood Assembly Wood Erection Anchor Crew Deadends	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0	2.50 6.00 1.50 8.00 6.00	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ 21,090.19 \$	- - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole	Hauling Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection Anchor Crew Deadends Padends Padends Padend to tap to HVdc Tower in Dead-end to tap to HVdc Tower in Labrado	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0	2.50 6.00 1.50 8.00	\$ 441.04 \$ \$ 710.52 \$ \$ 1,216.00 \$ \$ 699.24 \$ \$ 1,384.42 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	- \$ 32,277.98 \$ \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$	- - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole Two pole DE 90 degree, 8 anchors, jumpe Haul	Hauling Dead-end (0 - 1 deg) with Guys Hauling Wood Assembly Wood Erection Anchor Crew Deadends Padends Padends Padend to tap to HVdc Tower in Dead-end to tap to HVdc Tower in Labrado	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0 0 0	EA 2.50 6.00 1.50 8.00 6.00 EA	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$	- - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole Two pole DE 90 degree, 8 anchors, jumpe Haul Frame the Structure	Hauling Hood Assembly Wood Assembly Wood Erection Anchor Crew Dead-end to tap to HVdc Tower in Dead-end to tap to HVdc Tower in Labrado ers on extension	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0 0 0 0 0	EA 2.50 6.00 1.50 8.00 6.00 EA 2.50 6.00	\$ 441.04 \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$ 1,102.60 \$ 4,263.13 \$	- - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole Two pole DE 90 degree, 8 anchors, jumpe Haul Frame the Structure Set	Hauling Hood Assembly Wood Assembly Wood Frection Anchor Crew Deadends Pe Dead-end to tap to HVdc Tower in Dead-end to tap to HVdc Tower in Labrado ers on extension	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 6.00 1.50 8.00 6.00 EA 2.50 6.00 3.00	\$ 441.04 \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$ 1,102.60 \$ 4,263.13 \$ 3,648.01 \$	- - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,090.19			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole DE Two pole DE 90 degree, 8 anchors, jumpe Haul Frame the Structure Set Anchoring	Hauling Hood Assembly Wood Assembly Wood Frection Anchor Crew Dead-end to tap to HVdc Tower in Dead-end to tap to HVdc Tower in Labrado ers on extension Hauling Wood Assembly	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 6.00 1.50 8.00 6.00 6.00 EA 2.50 6.00 3.00 32.00	\$ 441.04 \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$ 1,102.60 \$ 4,263.13 \$ 3,648.01 \$ 22,375.58 \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - - - - - - - - - - - - -			
S1-G5 Framing and Setting of Single Pole Single pole floating DE w 2 anchors Haul Frame the Structure Set Anchoring Dead end S1-G6 Framing and Setting of Two Pole S1-G6 Framing and Setting of Two Pole Two pole DE 90 degree, 8 anchors, jumpe Haul Frame the Structure Set	Hauling Hood Assembly Wood Assembly Wood Frection Anchor Crew Dead-end to tap to HVdc Tower in Dead-end to tap to HVdc Tower in Labrado ers on extension Hauling Wood Assembly Wood Assembly Wood Assembly Wood Erection	each Total structure count: as per Drawing 505573-4633 each each each each each each each eac	0 -4ZDD-0013 0 1 0 48 0 49 0 35 0 13 0 0 0 0 0 0 0 0 0 0 0	EA 2.50 6.00 1.50 8.00 6.00 EA 2.50 6.00 3.00 32.00	\$ 441.04 \$ 710.52 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 32,277.98 \$ 1,102.60 \$ 4,263.13 \$ 1,824.01 \$ 5,593.90 \$ 8,306.55 \$ - \$ - \$ - \$ 21,090.19 \$ 1,102.60 \$ 4,263.13 \$ 3,648.01 \$	- - - - - - - - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 21,090.19 - - - - - - - - - - - - - - - - - - -			
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment	Description	Units		Hours per	5 .		0	1.1		NA-4	Manhours and	T-4-1 M-4
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V-H29	S1-I Optional Pricing (S1-Ix)											
V::I01	S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per	Total structure count:	2	LS		\$	-	\$	-	\$ -	\$ -	\$
	S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per Design	Drawings and Technical Spe	cifications	_								
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V::I02	S1-I2 Design and supply of micropile option as replacement for H-pile design	Total structure count:	2	EA		\$		\$	-	\$ -	\$ -	\$
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V::I03	S1-I3 Optional cost for mulching given area instead of salvaging S1-I3 Optional cost for mulching given area instead of salvaging	Total structure count:	2737	На		\$	-	\$	-	-	\$ -	\$
	31-13 Optional cost for mulcilling given area instead of salvaging											
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V::I04		Total structure count:	0	KM		\$	-	\$	-	\$ -	\$ -	\$
	S1-I4 Installation of Access Road - Alternative											
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INALOGIN 330 KV TIVUG LING GONSHUGHOI	n Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
				Olew No.	•	riodity rate	OTHE GOSE	- Custota.	00	OTHE GOSE	ato.iaio	atoa.o	. otal matemate
S1-I5 Slack Span Connections - Installation of				1	LS		\$	46,473.04	\$	46,473.04 \$	-	\$ 46,473.04	\$
S1-I5 Slack Span Connections - Installation of all	ll Conductor and OPGW from Teri	minal Tower to th	he Substation Ga	antry									
haul Insulators and Travellers	Haul Travellers&Glass	each	1	7	2.00	\$ 636.64 \$	1,273.27 \$	1,273.27	1 \$	1,273.27			
Hang Travellers	Hang Travellers	each	1	8	1.00	\$ 1,444.07 \$	1,444.07 \$	1,444.07	1 \$	1,444.07			
Install Conductor	Stringing	each	1	1.1	5.00	\$ 5,977.88 \$		29,889.42		29,889.42			
Install OPGW	OPGW Install	each	1	15	1.00	\$ 2,790.88 \$	2,790.88 \$	2,790.88		2,790.88			
Dead-end	Deadends	each	1	13	8.00	\$ 1,384.42 \$		11,075.40		11,075.40			
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S1-I6 Slack Span Connections - Installation of				0	LS		\$	-	\$	29,107.20 \$	-	\$ 29,107.20	\$
S1-I6 Slack Span Connections - Installation of all	ii Conductor and OPGW/ADSS Iro	m rerminai wo	od Pole to the El	ectrode Compoui	nd Gantry								
haul Insulators and Travellers	Haul Travellers&Glass	each	0	7	3.00	\$ 636.64 \$	1,909.91 \$	-	0 \$	-			
Hang Travellers	Hang Travellers	each	0	0	1.00	\$ 1,444.07 \$			0 \$	-			
Install Conductor	Slack Stringing	each	0		6.00	\$ 2,442.63 \$		-	0 \$	-			
Install OPGW / ADSS	OPGW Install	each	0		1.00	\$ 2,790.88 \$			0 \$	-			
Dead-end	Deadends	each each	0		6.00	\$ 1,384.42 \$ \$ - \$		-	0 \$	-			
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S1-I7 Supply and Installation of Culvert - 1000			0		LM	\$ - \$	- \$	-	0 \$	-		\$ -	\$
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S1-I7 Supply and Installation of Culvert - 1000 m	nm	each each each each each each each each	13 13 13 13 13 13 13 13 13 13	13		\$ - \$ \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 29,107.20 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	- - - - - - - - - - - - -	0 \$ \$ \$ \$ \$ 13 \$ 13 \$ 13 \$ 13 \$ 13 \$ 13 \$	- - - - - - - - - - - - -			
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	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment		Units Total	Craw Na	Hours per	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Offics	Unit Cost	Materials	ivialeriais	Total Materials
V::I09	S1-I9 Supply and Installation of Culvert - 1600 mm S1-I9 Supply and Installation of Culvert - 1600 mm	Total structure count:	13	LM		\$		\$	-	\$ -	\$ -	-
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V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm S1-I10 Supply and Installation of Culvert - 2000 mm	Total structure count:	13	LM		\$		\$	-	\$ -	\$ -	-
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V::I11	S1-I11 Supply and Installation of Culvert - 2400 mm S1-I11 Supply and Installation of Culvert - 2400 mm	Total structure count:	13	LM		\$		\$	-	-	\$ -	-
		each 13			\$ - \$ -	\$ - \$ \$ - \$		13 \$ 13 \$	-			
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	S1-I12 Supply and Installation of Culvert - 3000 mm S1-I12 Supply and Installation of Culvert - 3000 mm	Total structure count:	13	LM		\$	-	\$	-	\$ -	\$ -	-
		each 13	3		\$ -	\$ - \$	-	13 \$	_			
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Description Description								Crew Cost						Total Unit C	
SI-113 Assembly and Installation of Foundation Type A1-17tA, per kg, to be Total structure count: 1	Ľ	Description				0 11				Culptotal	Linita		Matariala		
Stiff Assembly and Installation of Foundation Type At-Iff A, per kg, to be used for weight increases or decreases		Description			rotai	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Material	s Total Materials
Sality Secreticly and installation of Foundation Type At-11/A, per kg, to be used to regist increases or decreases:	3 ;	S1-I13 Assembly and Installation of Found	dation Type A1-1/1A, per kg, to be	Total struct	ture count:	1	KG		\$	1.39	\$	1.39	\$ -	\$	1.39 \$
Resemble Resemble	,	S1-I13 Assembly and Installation of Foundati	ion Type A1-1/1A, per kg, to be used f	or weight increa	ses or decreases	3	_		_						
Resemble Resemble	Б					47	0.00000	444.04	0.44	0.41	1 416	0.44			
State Stat					1							0.41			
Stiff Assembly and Installation of Foundation Type A2-I/IA, per kg, to be Total structure count: 1 KG S S S S S S S S S	<u>'</u>	Assemble	Grillage Installation		1	20	0.00090								
each 1	-				1										
each 1				each	1			\$ - \$	- \$			-			
Balt St-114 Assembly and Installation of Foundation Type A2-1/1A, per kg, to be Total structure count: 1 KG S 1.39 S S 1.39 S S S S S S S S S					1							_			
St-114 Assembly and Installation of Foundation Type A2-1/1A, per kg, to be Total structure count: 1 KG S 1.39	L														
SI-114 Assembly and Installation of Foundation Type A2-1/1A, per kg, to be Total structure count: 1 KG S 1.39 S 1.39 S 1.39 S 1.39 S 1.39 S 1.39 S S 1.39 S S S S S S S S S	-														
St-114 Assembly and Installation of Foundation Type A2-1/1A, per kg, to be used for weight increases or decreases Faul	L			eacn	<u>'</u>			Φ 2 5							
St-114 Assembly and Installation of Foundation Type A2-1/1A, per kg, to be used for weight Increases or decreases Haul								Y	1.00	1.00	Ψ	1.00			
St-114 Assembly and installation of Foundation Type A2-1/1A, per kg, to be used for weight increases or decreases Haul	. :	S1-I14 Assembly and Installation of Found	dation Type A2-1/1A, per kg, to be	Total struct	ture count:	1	KG		\$	1.39	\$	1.39	\$ -	\$	1.39 \$
Assemble and install Comparement Compa				or weight increa	ses or decreases	3	_								
Assemble and install Assembly and installation of Foundation Type A3-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be Total structure count: Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Assembly and installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Assembly and installation of Foundati	г.						1 000000	444.04	0.44	0.4					
each	_				1										
each 1	4	Assemble and Install	Grillage Installation		1	20	0.00098								
S	-				1			7	7						
Signature Sign					1										
St-115 Assembly and Installation of Foundation Type A3-1/1A, per kg, to be Total structure count: 1 KG S 1.39 S 1.39 S 1.39 S S S S S S S S S	-											_			
S1-115 Assembly and Installation of Foundation Type A3-1/1A, per kg, to be Total structure count: 1 KG S 1.39	-			each	1										
S1-115 Assembly and Installation of Foundation Type A3-1/1A, per kg, to be used for weight increases or decreases	-											-			
S1-115 Assembly and Installation of Foundation Type A3-11/1A, per kg, to be used for weight increases or decreases Haul				each each	1			\$ - \$ \$ - \$	- \$ - \$	-	1 \$				
S1-115 Assembly and Installation of Foundation Type A3-1/1A, per kg, to be used for weight increases or decreases Haul	-			each each	1			\$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$		1 \$ 1 \$ 1 \$				
S1-I15 Assembly and Installation of Foundation Type A3-1/1A, per kg, to be used for weight increases or decreases Haul	-			each each	1			\$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$		1 \$ 1 \$ 1 \$				
Haul Foundation Haul each 1 1 17 0.00092 \$ 441.04 \$ 0.41 \$	- - - - - -	S1-I15 Assembly and Installation of Found	dation Type A3-1/1A per kg to be	each each each	1 1			\$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ 1.39 \$	1.39	1 \$ 1 \$ 1 \$ 1 \$	- - 1.39	\$ -	\$	1.39 \$
Assemble and install Assemble and install College traduction each 1 20 0.00098 \$ 1,002.72 \$ 0.98 \$ 0.98 1 \$ 0.98	5 3	S1-I15 Assembly and Installation of Founc S1-I15 Assembly and Installation of Foundati	dation Type A3-1/1A, per kg, to be ion Type A3-1/1A, per kg, to be used f	each each each Total struct	1 1 1 ture count:	1		\$ - \$ \$ - \$ \$ - \$	- \$ - \$ - \$ 1.39 \$	1.39	1 \$ 1 \$ 1 \$ 1 \$	- - 1.39	\$ -	\$	1.39 \$
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S1-I16 Assembly and Installation of Foundation Type A4-1/1A, per kg, to be used for weight increases or decreases Haul Foundation Haul Foun	; [S1-I15 Assembly and Installation of Foundati Haul	ion Type A3-1/1A, per kg, to be used f	each each each Total struct or weight increa each each each each each each each e	ture count: asses or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 17 20	KG 0.00092 0.00098	\$ - \$ \$ - \$ \$ - \$ \$ 1,002.72 \$ \$ - \$ \$ - \$ \$ - \$	- \$ - \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$	0.4 0.98	1	1.39 1.39 0.41 0.98	\$ -	\$	1.39 \$
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	; [<u>-</u>]	S1-I15 Assembly and Installation of Foundati Haul Assemble and install S1-I16 Assembly and Installation of Foundati S1-I16 Assembly and Installation of Foundati Haul	Foundation Haul Grillage Installation dation Type A4-1/1A, per kg, to be ion Type A4-1/1A, per kg, to be foundation Haul	each each each rotal struct or weight increa each each each each each each each e	ture count: 1	1 17 20 17 2	KG 0.00092 0.00098 KG	\$ - \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$. \$ \$.	- \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.38 0.4 0.98 1.38 1.39 0.4 0.90 1.39	1 \$ 1 \$ \$ \$ \$ \$ \$ \$	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
each 1 \$ - \$ - 1 \$ -	; [<u>-</u>]	S1-I15 Assembly and Installation of Foundati Haul Assemble and install S1-I16 Assembly and Installation of Foundati S1-I16 Assembly and Installation of Foundati Haul	Foundation Haul Grillage Installation Grillage Installation dation Type A4-1/1A, per kg, to be ion Type A4-1/1A, per kg, to be Foundation Haul	each each each rotal struct or weight increa each each each each each each each e	ture count: ture count:	1 17 20 17 2	KG 0.00092 0.00098 KG	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ 1,002.72 \$ \$ - \$	- \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.38 0.4' 0.98 1.38 1.39 0.4' 0.98	1	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
each 1 \$ - \$ - 1 \$ - \$ - 1 \$ - \$ - 1 \$ - \$ - 1 \$ -	; [<u>-</u>	S1-I15 Assembly and Installation of Foundati Haul Assemble and install S1-I16 Assembly and Installation of Foundati S1-I16 Assembly and Installation of Foundati Haul	Foundation Haul Grillage Installation Grillage Installation dation Type A4-1/1A, per kg, to be ion Type A4-1/1A, per kg, to be Foundation Haul	each each each rotal struct or weight increa each each each each each each each e	ture count: ses or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 17 2	KG 0.00092 0.00098 KG	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ 1.39 \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.38 0.4' 0.98 1.38 1.38 0.4' 0.98	1	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
each 1 \$ - \$ - 1 \$ - \$ - 1 \$ - \$ - 1 \$ - \$ - 1 \$ - each 1 \$ - \$ - 1 \$ - - 1 \$ -	; [] - - - - - - - - - - - - - - - - - -	S1-I15 Assembly and Installation of Foundati Haul Assemble and install S1-I16 Assembly and Installation of Foundati S1-I16 Assembly and Installation of Foundati Haul	Foundation Haul Grillage Installation Grillage Installation dation Type A4-1/1A, per kg, to be ion Type A4-1/1A, per kg, to be Foundation Haul	each each each each rotal struct or weight increa each each each each each each each e	ture count: ses or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1 1 1 20 1 20 1 20 1 20 1 20 1 2	KG 0.00092 0.00098 KG	\$ - \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$. \$ \$. \$	- \$ - \$ 1.39 \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.38 0.4 0.98 1.38 1.38 0.4 0.98 1.38 1.38	1	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			



NAL	LCOR 350 kV HVdc Line Constru	ction Front 3 (Newfoundland)				Crew Cost						Total Ur		
t		· ·	Units		Hours per							Manhou		
Desc	cription		Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Mate	erials Total Ma	terials
							_							
S1-I1	17 Assembly and Installation of Foun	dation Type B1-1/1A, per kg, to be	Total structure count:	1	KG		\$	1.39	\$	1.39	\$	- \$	1.39 \$	
S1-I1	17 Assembly and Installation of Founda	tion Type B1-1/1A, per kg, to be used to	r weight increases or decreas	es										
Haul	ı	Foundation Haul	each	1 17	0.00092	\$ 441.04 \$	0.41 \$	0.41	1 \$	0.41	7			
	emble and install	Grillage Installation	each	1 20	0.00098		0.98 \$	0.98		0.98				
71000	emble and motali	Gillage installation		1	0.00000	\$ - \$	- \$	-	1 \$		-			
				1		\$ - \$	- \$		1 \$		-			
				1		\$ - \$	- \$		1 \$					
				1		\$ - \$	- \$		1 \$	_	1			
			each	1		\$ - \$	- \$	-	1 \$	-				
			each	1		\$ - \$	- \$	-	1 \$	-	1			
			<u> </u>	•		\$	1.39 \$	1.39		1.39				
											_			
S1-I1	118 Assembly and Installation of Foun	dation Type B2-1/1A, per kg, to be	Total structure count:	1	KG		\$	1.39	\$	1.39	\$	- \$	1.39 \$	
S1-I1	118 Assembly and Installation of Foundar	tion Type B2-1/1A, per kg, to be used fo	r weight increases or decreas	es										
											7			
Haul		Foundation Haul		1 17	0.00092	\$ 441.04 \$	0.41 \$	0.41						
Asse	emble and install	Grillage Installation	04011	1 20	0.00098	\$ 1,002.72 \$	0.98 \$	0.98			_			
				1		\$ - \$	- \$		1 \$					
				1		\$ - \$	- \$		1 \$					
			545.1	1		\$ - \$	- \$	-	1 \$		1			
-			Cuon			\$ - \$ \$ - \$	- \$ - \$	-	1 \$		4			
									11.35	-				
			odon	1							1			
\$1-I1	119 Assembly and Installation of Foun	dation Type C1-1, per kg, to be used	each Total structure count:	1		\$ - \$		1.39 1.39	1 \$	1.39		- \$	1.39 \$	
S1-I1	19 Assembly and Installation of Foundar	dation Type C1-1, per kg, to be used tion Type C1-1, per kg, to be used for we	Total structure count: eight increases or decreases	1	KG	\$ 5	1.39 \$	1.39	1 \$	1.39 1.39	\$	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	dation Type C1-1, per kg, to be used tion Type C1-1, per kg, to be used for we	Total structure count: eight increases or decreases each	1 1 17	KG 0.00092	\$ - \$ \$ \$ 441.04 \$	- \$ 1.39 \$ \$	1.39 1.39	1 \$	1.39 1.39	- \$ 	- \$	1.39 \$	
S1-I1	19 Assembly and Installation of Foundar	tion Type C1-1, per kg, to be used for we	Total structure count: eight increases or decreases each each each	1	KG 0.00092 0.00098	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ 1 \$ 3 1 \$	- 1.39 1.39 0.41 0.98	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	Total structure count: eight increases or decreases each each each each	1 1 17	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ 1 \$ 3 1 \$ 1 \$	1.39 1.39 0.41 0.98	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	Total structure count: eight increases or decreases each each each each each	1 1 17	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ - \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each	1 1 17	KG 0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 -	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 20 11 11 11 11 11 11 11 11 11 11 11 11 11	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - -	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each eac	1 1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - -	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 20 11 11 11 11 11 11 11 11 11 11 11 11 11	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - - -	- \$ 	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each eac	1 1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - - -	\$	- \$	1.39 \$	
S1-I1	I19 Assembly and Installation of Founda	tion Type C1-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each eac	1 1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - - -	\$	- \$	1.39 \$	
S1-I1 Haul Asse	il Assembly and Installation of Foundarial emble and install	tion Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation	each Total structure count: eight increases or decreases each each each each each each each eac	1 1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	1.39 1.39 0.41 0.98	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - - - - - 1.39	\$	- \$ - \$		
S1-I1 Haul Asse	19 Assembly and Installation of Foundar	tion Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$	1.39 1.39 0.41 0.98 - - - - 1.39	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - - - - - - 1.39	\$		1.39 \$	
S1-I1 Haul Asse	19 Assembly and Installation of Foundar 18 19 19 19 19 19 19 19	tion Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$	1.39 1.39 0.41 0.98 - - - - 1.39	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 1.39 0.41 0.98 - - - - - - 1.39	\$			
S1-I1 Haul Asse	19 Assembly and Installation of Foundar 18 19 19 19 19 19 19 19	tion Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$	1.39 1.39 0.41 0.98 - - - - 1.39	1 S S S S S S S S S S S S S S S S S S S	- 1.39 0.41 0.98 - - - - - - 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	19 Assembly and Installation of Foundar 18 19 19 19 19 19 19 19	tion Type C1-1, per kg, to be used for we Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we	each Total structure count: eight increases or decreases each each each each each each each eac	1 1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$	1.39 1.39 0.41 0.98 1.39 1.39	1	- 1.39 0.41 0.98 - - - - - 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$	1.39 1.39 0.41 0.98 1.39 1.39	1	- 1.39 0.41 0.98 - - - - - 1.39 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098 KG 0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$	1.39 1.39 1.39 1.39 1.39 1.39	1 S S S S S S S S S S S S S S S S S S S	- 1.39 0.41 0.98 - - - - - 1.39 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098 KG 0.00092 0.00098	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.39 1.39 0.41 0.98 1.39 1.39	1 S S S S S S S S S S S S S S S S S S S	- 1.39 1.39 0.41 0.98 - - - - - 1.39 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098 KG 0.00098	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.39 1.39 0.41 0.98 1.39 1.39 0.41 0.98	1 S S 3 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.39 1.39 0.41 0.98 - - - - - 1.39 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098 KG 0.00098	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.39 1.39 0.41 0.98 1.39 1.39 1.39	1 S S 3 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.39 1.39 0.41 0.98 - - - - - 1.39 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098 KG 0.00098	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ 1,002.72 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.39 0.41 0.98 1.39 1.39 1.39 1.39	1 S S 3 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 1.39 1.39 0.41 0.98 - - - - 1.39 1.39	\$ 			
S1-I1 Haul Asse S1-I2 S1-I2	I19 Assembly and Installation of Foundarial emble and install I20 Assembly and Installation of Foundarial I20 Assembly and Installation of Foundarial	Foundation Haul Grillage Installation dation Type C2-1, per kg, to be used tion Type C2-1, per kg, to be used for we Foundation Haul	each Total structure count: eight increases or decreases each each each each each each each eac	1 17 17 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KG 0.00092 0.00098 KG 0.00098	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1.39 \$ \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ 1.39 \$ \$ 0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1.39 0.41 0.98 1.39 1.39 1.39 1.39 1.39	1	- 1.39 1.39 0.41 0.98 - - - - 1.39 1.39	\$ 			



NALCOR 350 kV HVdc Line Cons	Struction i font 3 (Newloundland)					Crew Cost						I ota	al Unit Cost	
			Units		Hours per								hours and	
Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials		Materials	Total Materials
S1-I21 Assembly and Installation of Fo	oundation Type D1-1, per kg, to be used	I Total struc	ture count:	1	KG		\$	1.3	9 \$	1.39	\$	- \$	1.39	\$
S1-I21 Assembly and Installation of Four	indation Type D1-1, per kg, to be used for	weight increase			_		_				•	•		•
D										1				
Haul Assemble and install	Foundation Haul	each	1	17 20	0.00092		0.41 \$	0.4		0.41 0.98				
Assemble and Install	Grillage Installation	each each	1 1		0.00098	\$ 1,002.72 \$ \$ - \$	0.98 \$	0.9						
		each	1 1			\$ - \$	- \$							
		each	1			\$ - \$	- \$			-				
		each	1			\$ - \$				-				
		each	1			\$ - \$				-				
		each each	1			\$ - \$ \$ - \$				-				
		Caon	'			\$	1.39 \$			1.39				
S1-I22 Assembly and Installation of Fo	oundation Type D2-1, per kg, to be used	I Total struc	ture count:	1	KG		\$	1.3	\$	1.39	\$	- \$	1.39	\$
S1-I22 Assembly and Installation of Four	ndation Type D2-1, per kg, to be used for	weight increases	s or decreases											
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04 \$	0.41 \$	0.4	1 1 \$	0.41				
Assemble and install	Grillage Installation	each	1	20	0.00098	\$ 1,002.72 \$	0.98 \$							
	-	each	1			\$ - \$	- \$			-				
		each	1			\$ - \$		-		-				
		each	1			\$ - \$				-				
		each	I			\$ - \$ \$ - \$		-		-				
		each	1											
		each each	1			\$ - \$								
							- \$	-	1 \$ 1 \$					
		each	1			\$ - \$	- \$ - \$	-	1 \$ 1 \$	-				
C4 1/2 Accomply and Installation of Ea	oundation Type Ed.4, was keep to be used	each each	1		KC	\$ - \$ \$ - \$	- \$ - \$ 1.39 \$	- - 1.3	1 \$ 1 \$ 39 \$	- - 1.39	¢	¢	1 20	l e
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	NALCOR 350 kV HVdc Line Cons	truction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
ent	Description			Units		Hours per			Cubtotal	Limita		Mataviala	Manhours and	
L	Description			Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
	S1-I25 Assembly and Installation of Fo	oundation Type A2-2, per kg, to be used	Total struct	ture count:	1	KG			\$ 1	.39	1.39	\$ -	\$ 1.3	39 \$
	S1-I25 Assembly and Installation of Four	ndation Type A2-2, per kg, to be used for w	eight increases						Y		,	*	Ψ	•
	•	71 71 07	J											
	Haul	Foundation Haul	each	1	17	0.00092		0.41		0.41 1				
Ŀ	Assemble and install	Grillage Installation	each	1	20	0.00098	\$ 1,002.72 \$	0.98		0.98 1				
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-			•	•			\$	1.39	\$.39	1.39			
	S1-I26 Assembly and Installation of Fo	oundation Type A3-2, per kg, to be used	Total struct		1	KG			\$.39	1.39	\$ -	\$ 1.3	39 \$
	S1-I26 Assembly and Installation of Four	ndation Type A3-2, per kg, to be used for w	eight increases	or decreases										
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-	S1-127 Assembly and Installation of Fo	nundation Type A4-2 per kg to be used	each	1		KG	\$ - \$	1.39	\$	- 1	5 1.39	s -	\$ 1:	39 \$
<u>-</u>	S1-I27 Assembly and Installation of Fo	oundation Type A4-2, per kg, to be used	each Total struct	ture count:		KG	\$ - \$	1.39	\$	- 1	5 1.39	\$ -	\$ 1.:	39 \$
<u> </u>	S1-I27 Assembly and Installation of Four S1-I27 Assembly and Installation of Four	oundation Type A4-2, per kg, to be used ndation Type A4-2, per kg, to be used for w	each Total struct	ture count:		KG	\$ - \$	1.39	\$	- 1	5 1.39	\$ -	\$ 1.3	39 \$
	S1-I27 Assembly and Installation of Four Haul	oundation Type A4-2, per kg, to be used nation Type A4-2, per kg, to be used for we Foundation Haul	each Total struct	ture count:	17	0.00092	\$ - \$ \$ \$	1.39	\$ \$ \$	- 1 39 39 30.41 1 1 1	5 1.39 5 1.39	\$ -	\$ 1.3	39 \$
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	S1-I27 Assembly and Installation of Four Haul Assemble and install S1-I28 Assembly and Installation of Four S1-I28 Assembly and Installation of Four	Foundation Type A4-2, per kg, to be used for we foundation Haul Grillage Installation Dundation Type B1-2, per kg, to be used adation Type B1-2, per kg, to be used for we foundation Type B1-2, per kg, to be used for we	each Total struct reight increases each each each each each each each eac	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 17 20 1	0.00092 0.00098	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 0.41 0.98 - - - - - 1.39	\$ (0) \$ (1) \$ (2) \$ (3)	- 1 .39 .39 .39 .39 .39 .10 .11 .11 .11 .11 .11 .11 .1	5 - 1.39 5 0.41 6 0.98 6 6 6 7 - 6 - 7 8 1.39			
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NALCOR 350 kV HVdc Lin	ne Construction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
Becomption		L	Total	Clew No.	unit	riouny reace	Onit Cost	Cubtotai	Office	Offit Cost	Waterials	Waterials	Total Materials
S1-I29 Assembly and Installat	tion of Foundation Type B2-2, per kg, to be used	I Total struct		1	KG		(1	.39	1.39	-	\$ 1.39	\$
S1-I29 Assembly and Installatio	on of Foundation Type B2-2, per kg, to be used for	weight increases	s or decreases										
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04 \$	0.41		.41 1 9	0.41			
Assemble and install	Grillage Installation	each	1	20	0.00098	\$ 1,002.72 \$	0.98		.98 1 9				
	**************************************	each	1		0.00000	\$ - \$	- 9		- 1 5				
		each	1			\$ - \$	- 9		- 1 \$				
		each	1			\$ - \$	- 9		- 1 \$				
		each	1			\$ - \$	- 9		- 1 3				
		each each	1			\$ - \$ \$ - \$	- 3		- 1 S				
		each	1			\$ - \$	- 3		- 1 3				
			1			\$	1.39		.39				
S1-I30 Assembly and Installat	tion of Foundation Type C1-2, per kg, to be used	I Total struct	ture count:	1	KG			1	.39	1.39	-	\$ 1.39	\$
S1-I30 Assembly and Installatio	on of Foundation Type C1-2, per kg, to be used for	weight increases	s or decreases										
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04 \$	0.41	3 0	.41 1 9	0.41			
Assemble and install	Grillage Installation	each	1		0.00098	\$ 1,002.72 \$	0.98		.98 1 5				
		each	1			\$ - \$	- 9		- 1 \$				
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		a a c h					-		- ' 4				
		each each	1			\$ - \$	_ 9	3	- 19	<u>-</u>			
		each each each	1 1			\$ - \$ \$ - \$	- 9		- 1 S				
		each	1 1					3		-			
		each each	1			\$ - \$	1.39	5 5 1	- 1 3 .39	1.39			
S1-I31 Assembly and Installat	tion of Foundation Type C2-2, per kg, to be used	each each Total struct	ture count:	1	KG	\$ - \$	- 9	5 5 1	- 1 \$	5 - 5 1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installat S1-I31 Assembly and Installatio	tion of Foundation Type C2-2, per kg, to be used for of Foundation Type C2-2, per kg, to be used for	each each Total struct	ture count:	1	KG	\$ - \$	1.39	5 5 1	- 1 3 .39	1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each I Total struct weight increases	ture count:			\$ - \$	1.39	6 1 6 1	- 1 5 .39 5	1.39 1.39	\$ -	 \$ 1.39	\$
S1-I31 Assembly and Installatio S1-I31 Assembly and Installatio Haul Assemble and install	tion of Foundation Type C2-2, per kg, to be used for of Foundation Type C2-2, per kg, to be used for	each each Total struct	ture count:		KG 0.00092 0.00098	\$ - \$	1.39	6 1 6 1	- 1 3 .39		\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each Total struct weight increases each	ture count:	17	0.00092	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$	- 1.39	6 1 6 1 6 0 6 0	- 1 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.30 \$	1.39 1.39 1.39 1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each Total struct weight increases each each each each each	ture count: s or decreases	17 20	0.00092	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ - \$	0.41 \$ 0.98 \$ - \$ \$	6 1 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	- 1 \$.39 \$.30 \$	1.39 1.39 1.39 1.39 1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each Total struct weight increases each each each each each each	ture count: s or decreases	17 20	0.00092	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ - \$ \$ - \$	0.41 \$ 0.98 \$ - \$ 0.98 \$ - \$ 0.98 \$ 0	6 1 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	- 1 \$.39 \$.30 \$.39 \$.39 \$.39 \$.30 \$	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39	\$	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each Total struct weight increases each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00092	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ - \$ \$ - \$	0.41 \$ 0.98 \$ - \$ - \$ 5 - \$ 5	6 1 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	- 1 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.30 \$	3 1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39	\$ <u>-</u>	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each I Total struct weight increases each each each each each each each eac	ture count: s or decreases	17 20	0.00092	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	0.41 \$ 0.98 \$ - \$ - \$ 5 - \$ 5 - \$ 5	6 1 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	- 1 3 .39 3 .39 5 .39 5 .41 1 5 .98 1 5 1 5 1 5 1 5 1 5	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each Total struct weight increases each each each each each each each	ture count: s or decreases	17 20	0.00092	\$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 \$ 0.98 \$ - \$ - \$ 5 - \$ 5 - \$ 5	6 1 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.39 \$.30 \$	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio	on of Foundation Type C2-2, per kg, to be used for	each each Yotal struct weight increases each each each each each each each eac	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00092	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	0.41 \$ 0.98 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	6 1 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 3 .39 3 .39 3 .39 4 1 3 1	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39	\$ -	\$ 1.39	\$
S1-I31 Assembly and Installatio Haul Assemble and install	on of Foundation Type C2-2, per kg, to be used for Foundation Haul Grillage Installation	each each Total struct weight increases each each each each each each each eac	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20	0.00092 0.00098	\$ - \$ \$ \$ 1,002.72 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	0.41 9 0.98 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	6 1 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	- 1 5 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
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S1-I31 Assembly and Installatio Haul Assemble and install S1-I32 Assembly and Installatio S1-I32 Assembly and Installatio Haul	Pro of Foundation Type C2-2, per kg, to be used for Foundation Haul Grillage Installation tion of Foundation Type D1-2, per kg, to be used for of Foundation Type D1-2, per kg, to be used for Foundation Type D1-2, per kg, to be used for	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00092 0.00098 KG	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39	6 1 1 6 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 5 39 5 4 1 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
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S1-I31 Assembly and Installatio Haul Assemble and install S1-I32 Assembly and Installatio S1-I32 Assembly and Installatio Haul	Pro of Foundation Type C2-2, per kg, to be used for Foundation Haul Grillage Installation tion of Foundation Type D1-2, per kg, to be used for of Foundation Type D1-2, per kg, to be used for Foundation Type D1-2, per kg, to be used for	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00092 0.00098 KG	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 5	6 1 6 1 6 0 6 0 6 0 6 0 6 1 6 0 6 0 6 0	- 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
S1-I31 Assembly and Installatio Haul Assemble and install S1-I32 Assembly and Installatio S1-I32 Assembly and Installatio Haul	Pro of Foundation Type C2-2, per kg, to be used for Foundation Haul Grillage Installation tion of Foundation Type D1-2, per kg, to be used for of Foundation Type D1-2, per kg, to be used for Foundation Type D1-2, per kg, to be used for	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00092 0.00098 KG	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 5	6 1 1 6 0 0 6 0 0 6 6 6 6 6 6 6 6 6 6 6	- 1 5 39 5 4 1 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
S1-I31 Assembly and Installatio Haul Assemble and install S1-I32 Assembly and Installatio S1-I32 Assembly and Installatio Haul	Pro of Foundation Type C2-2, per kg, to be used for Foundation Haul Grillage Installation tion of Foundation Type D1-2, per kg, to be used for of Foundation Type D1-2, per kg, to be used for Foundation Type D1-2, per kg, to be used for	each each each each each each each each	ture count: s or decreases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 20 1 17 20	0.00092 0.00098 KG	\$ 441.04 \$ 1,002.72 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 \$	6 1 1 6 0 0 6 0 0 6 6 6 6 6 6 6 6 6 6 6	- 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			



NALCOR 350 KV HV	/dc Line Construction Front 3 (Newfoundland)					Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
·		I.		0.011.110.	•	Tround Train	J 3551						
S1-I33 Assembly and In	nstallation of Foundation Type D2-2, per kg, to be used	Total struct		1	KG		\$	1	.39	1.39	-	\$ 1.39	\$
S1-I33 Assembly and Ins	stallation of Foundation Type D2-2, per kg, to be used for v	veight increases	s or decreases										
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04 \$	0.41	0	.41 1 3	0.41			
Assemble and install	Grillage Installation	each	1	20	0.00098	\$ 1,002.72 \$	0.98	0	.98 1 \$	0.98			
		each	1			\$ - \$	- 3		1 9				
		each	1			\$ - \$	- 9						
		each each	1			\$ - \$ \$ - \$	- 9		- 1 9				
		each	1			\$ - \$ \$ - \$	- 9		- 1 3				
		each	1			\$ - \$	- 3		- 1 9				
		each	1			\$ - \$	- 3		- 1 9	-			
		•	•			\$	1.39	1	.39	1.39			
S1-I34 Assembly and In	nstallation of Foundation Type E1-2, per kg, to be used	Total struct		1	KG			1	.39	1.39	5 -	\$ 1.39	\$
S1-134 Assembly and Ins	stallation of Foundation Type E1-2, per kg, to be used for w	veignt increases	s or decreases										
Haul	Foundation Haul	each	1	17	0.00092	\$ 441.04 \$	0.41 3	0	.41 1 9	0.41			
Assemble and install	Grillage Installation	each	1		0.00098	\$ 1,002.72 \$	0.98		.98 1 5				
		each	1			\$ - \$	- 9		- 1 \$	-			
		each	1			\$ - \$			- 1 \$				
		each	1			\$ - \$	- 9	<u> </u>	- 1 9				
		each	1			\$ - \$ \$ - \$			- 1 5				
						φ - φ	-	1	- 1 8				
		each each	1			\$ - \$	- 9		- 1 9				
		each	1 1			\$ - \$ \$	- 9		- 1 9				
					<u> </u>	-	- \$ - \$ 1.39 \$		- 1 5 - 1 5 .39	-			
S1-I35 Assembly and E	rection of Tower Type A1, per kg, to be used for weight ection of Tower Type A1, per kg, to be used for weight incr	each each Total struct	ture count:	1	KG	\$ - \$	- 9	1	- 1 \$	1.39	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ero	rection of Tower Type A1, per kg, to be used for weight incr	each each Total struct	ture count:		KG 0.00093	\$ - \$	1.39		- 1 5 .39 5	1.39 4.94	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere	Frection of Tower Type A1, per kg, to be used for weight ection of Tower Type A1, per kg, to be used for weight incr	each each t Total structeases or decreases	ture count:	-		\$ - \$	1.39		- 1 \$ 39 \$ 94 \$ \$ 41 1 \$ 79 1 \$ \$	3 1.39 4.94 3 6 0.41 6 3.79	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere	ection of Tower Type A1, per kg, to be used for weight incr	each each t Total struct eases or decrea	ture count:	1	0.00093	\$ - \$ \$ \$ \$ \$ 1,002.72 \$ \$ 1,482.09 \$	0.41 \$ 3.79 \$ 0.74 \$	6 1 6 4 6 0 6 3	. 1 \$.39	3 1.39 4.94 3 4.94 3 3.79 6 0.74	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grillage Installation	each each t Total struct eases or decrea each each each each	ture count: ases	1 20 40	0.00093 0.00378	\$ - \$ \$ \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$	0.41 \$ 3.79 \$ 0.74 \$ - \$	0 3 0	. 1 \$ 39 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1.39 4.94 5 0.41 6 3.79 6 0.74	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grillage Installation	each each t Total struct eases or decree each each each each each each	ture count: ases	1 20 40	0.00093 0.00378	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ \$ - \$	3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 3 39 5 -94 5 - 1 3 - 1 3	3 1.39 4.94 3 6 0.41 6 3.79 6 0.74 6 -	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grillage Installation	each each t Total struct eases or decrea each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ \$ - \$ \$	0 4 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 3 39 5 94 5 41 1 5 79 1 5 74 1 5 - 1 5	3 1.39 4.94 3 6 0.41 6 3.79 6 0.74 6 -	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grillage Installation	each each t Total struct eases or decree each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378	\$ - \$ \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$ \$ - \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ \$ - \$	0 3 3 0	- 1 3 39 5 94 5 - 1 3 - 1 3 - 1 3	3 1.39 4.94 1 3 0.41 3.79 0.74 	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grillage Installation	each each t Total struct eases or decree each each each each each each each e	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ 5 - \$ 5 - \$ 5	0 3 0 3 0	- 1 3 39 5 94 5 - 1 3 - 1 3 - 1 3 - 1 3	3 1.39 4.94 1.39 3 0.41 3 .79 0 .74 	\$ -	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grillage Installation	each each t Total struct eases or decrea each each each each each each each e	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378	\$ 441.04 \$ \$ 1,002.72 \$ 1,482.09 \$ \$ - \$ \$ \$ 5 - \$ \$ \$ 5 - \$ \$ \$ \$ - \$ \$ \$ \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ 5 - \$ 5 - \$ 5	6 1 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- 1 3 39 5 94 5 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3	3 1.39 4.94 1 1.39 4.94 1 1.39 6 0.41 1 1.379 0.74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ <u>-</u>	\$ 4.94	\$
S1-I35 Assembly and Ere Haul Assemble Erect	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grilage Installation Y- Tower Erection	each each t Total struct eases or decrea each each each each each each each e	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378 0.0005	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 9 3.79 9 0.74 5 - 9 - 9 - 9 - 9 4.94 \$	6 0 6 3 6 0	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.79 0.74 3.79 0.74 3.79 0.74 3.79 0.74 3.79			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and E	Hauling Gritiage Installation Y- Tower Erection Greetion of Tower Type A2, per kg, to be used for weight	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ 5 - \$	6 0 6 3 6 0	- 1 3 39 5 94 5 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3	3.79 0.74 		\$ 4.94 \$ 5.15	
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and E	rection of Tower Type A1, per kg, to be used for weight incr Hauling Grilage Installation Y- Tower Erection	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 20 40	0.00093 0.00378 0.0005	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 9 3.79 9 0.74 5 - 9 - 9 - 9 - 9 4.94 \$	6 0 6 3 6 0	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3.79 0.74 3.79 0.74 3.79 0.74 3.79 0.74 3.79			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and E	Hauling Grilage Installation Y-Tower Erection Frection of Tower Type A2, per kg, to be used for weight increase a control of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight increase.	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.241024046 1	0.00093 0.00378 0.0005	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 9 3.79 9 0.74 5 - 9 - 9 - 9 - 9 4.94 \$	1 4 4 5 5	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 4.94 0.41 3.79 0.74			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere	Hauling Gritiage Installation Y- Tower Erection Greetion of Tower Type A2, per kg, to be used for weight	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ture count: ases	2.241024046 1	0.00093 0.00378 0.0005	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 \$ 3.79 \$ 0.74 \$ - \$ 5 - \$ 5 - \$ 5 4.94 \$ 5	0 3 3 0 4 5	1 3 39 39 5 .94 5 .41 1 5 .79 1 5 .74 1 5 	1.39 4.94 3.79 0.74			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere Haul	Hauling Hauling Grillage Installation Y- Tower Erection Frection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight incr	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ture count:	2.241024046 1 2.20	0.00093 0.00378 0.0005	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$. \$ \$.	- 1.39 S S S S S S S S S S S S S S S S S S S	5 1 6 4 6 3 6 0 6 4 7 5	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 1.39 4.94 5 0.41 6 3.79 6 0.74 7			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere Haul Assemble	Hauling Gritage Installation Y- Tower Erection Frection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight incr	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.241024046 1 1 20 40	0.00093 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 5	5 4 5 4 6 5 6 0 7 5	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 1.39 1.39 1.39 1.39 1.39 1.39 1.39			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere Haul Assemble	Hauling Gritage Installation Y- Tower Erection Frection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight incr	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.241024046 1 20 40	0.00093 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 5	5 1 4 4 5 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 4.94 3.79 3.79 3.79 3.79 4.94 5.15 5.15			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere Haul Assemble	Hauling Gritage Installation Y- Tower Erection Frection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight incr	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.241024046 1 20 40	0.00093 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 \$	1 4 4 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1 3 39 39 4 3 41 1 3 41 1 3 4	1.39 4.94 4.94 3.79 0.74 4.94 5.15 0.61 3.79 0.74			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere Haul Assemble	Hauling Gritage Installation Y- Tower Erection Frection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight incr	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.241024046 1 2.20 40	0.00093 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39	4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9	- 1 3 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.39 4.94 3.79 0.74 4.94 5.15 0.61 3.79 0.74			
S1-I35 Assembly and Ere Haul Assemble Erect S1-I36 Assembly and Ere S1-I36 Assembly and Ere Haul Assemble	Hauling Gritage Installation Y- Tower Erection Frection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight ection of Tower Type A2, per kg, to be used for weight incr	each each each each each each each each	ture count: ases 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.241024046 1 2.241024046	0.00093 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ \$ 1,482.09 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 1.39 \$	4 5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	- 1 3 39 39 4 3 41 1 3 41 1 3 4	1.39 4.94 3.79 0.74 3.79 0.74 3.79 4.94 5.15 5.15 6.061 3.79 0.74 5.15 6.061 3.79 0.74 6.07			



	onstruction Front 3 (Newfoundland)		11.2		<u></u>	Crew Cost						Total Unit Cost	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours and Materials	Total Materials
						·							
S1-I37 Assembly and Erection of Toy	ower Type A3, per kg, to be used for weig wer Type A3, per kg, to be used for weight in	int Total struc	ture count:	1	KG		\$	4.94	\$	4.94	-	\$ 4.9	4 \$
or for resembly and Erection of Tev	wer Type Ao, per kg, to be ased for weight in	ioreases or acore	,4303										
Haul	Hauling	each	,	-	0.00093		0.41 \$	0.41		0.41			
Assemble	Grillage Installation	each	•	20	0.00378	\$ 1,002.72 \$	3.79 \$	3.79		3.79			
Erect	Y- Tower Erection	each	1	40	0.0005	\$ 1,482.09 \$	0.74 \$	0.74		0.74			
		each each	+			\$ - \$ \$ - \$	- \$ - \$		1 \$				
		each	 			\$ - \$	- \$		1 \$	-			
		each	•			\$ - \$	- \$	-	1 \$	-			
		each	,			\$ - \$	- \$	-	1 \$	-			
		each	·			\$ - \$	- \$		1 \$	-			
						\$	4.94 \$	4.94	\$	4.94			
S1-138 Assembly and Erection of T	ower Type A4, per kg, to be used for weig	ibt Total struc	ture count:	1	KG		S	4.94	\$	4.94	<u> </u>	\$ 4.9	4 \$
S1-I38 Assembly and Frection of Tov	wer Type A4, per kg, to be used for weight in	creases or decre	eases		_ KG		4	4.54	Ψ	4.34	-	φ 4.3	4
	7, , F												
Haul	Hauling	each		1	0.00093		0.41 \$			0.41			
Assemble	Grillage Installation	each	•	20	0.00378		3.79 \$			3.79			
Erect	Y- Tower Erection	each		40	0.0005	\$ 1,482.09 \$ \$ - \$	0.74 \$			0.74			
		each each				\$ - \$	- \$ - \$		1 \$	-			
		each	-			\$ - \$	- \$		1 \$	-			
		each	•			\$ - \$	- \$		1 \$	-			
1						Φ Φ	•		4 6				
		each	•			\$ - \$	- \$	-	1 \$	-			
		each each				\$ - \$	- \$	-	1 \$	-			
								-	1 \$				
C4 120 Accombly and Exaction of T	'ouar Timo D4 mar km to be used for use	each	,			\$ - \$	- \$ 4.94 \$	4.94	1 \$	4.94	•	¢ 40	4 ¢
S1-I39 Assembly and Erection of To	ower Type B1, per kg, to be used for weig	each	eture count:		KG	\$ - \$	- \$	- 4.94	1 \$	-	\$ -	\$ 4.9	4 \$
S1-I39 Assembly and Erection of To S1-I39 Assembly and Erection of Tov	Tower Type B1, per kg, to be used for weig wer Type B1, per kg, to be used for weight in	each	eture count:			\$ - \$	- \$ 4.94 \$	4.94	1 \$	4.94	\$ -	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov	Tower Type B1, per kg, to be used for weigwer Type B1, per kg, to be used for weight in	each	cture count:		KG 0.00093	\$ - \$	- \$ 4.94 \$ \$	4.94 4.94	1 \$ \$ \$	- 4.94 4.94	-	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in	each Total structure assess or decreases each each	eture count:	1 20	KG 0.00093 0.00378	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$	- \$ \$ \$ \$ \$ \$ \$ 3.79 \$	4.94 4.94 0.41 3.79	1 \$ \$ \$ 1 \$ 1 \$	- 4.94 4.94 0.41 3.79	-	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov	wer Type B1, per kg, to be used for weight in	ght Total structure assess or decreases each each each	eture count:	1 20 40	KG 0.00093	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.94 4.94 0.41 3.79 0.74	1 \$ \$ \$ 1 \$ 1 \$ 1 \$	- 4.94 4.94 0.41 3.79 0.74	-	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation	each Total structure acreases or decreases each each each each each	eture count:	1 20	KG 0.00093 0.00378	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	1 S \$ \$ 1 S 1 S 1 S 1 S	0.41 3.79 0.74	-	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation	each Total structure ases or decree each each each each each each	eture count:	1 20 40	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	.	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation	each Total structure acreases or decreases each each each each each	eture count:	1 20 40	KG 0.00093 0.00378	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	.	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation	each Total structureases or decre each each each each each each each	eture count:	1 20 40	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	.	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation	each Total structureases or decre each each each each each each each ea	eture count:	1 20 40	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$ \$ - \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S		-	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation	each Total structureases or decre each each each each each each each ea	eture count:	1 20 40	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.94 4.94 0.41 3.79 0.74	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 4.94 4.94 0.41 3.79 0.74 - - - -	.	\$ 4.9	4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble Erect	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection	each creases or decre each each each each each each each ea	eture count:	1 20 40	0.00093 0.00378 0.0005	\$ - \$ \$ \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 4.94 \$ \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$	0.41 3.79 0.74 - - - - 4.94	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S				
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Tower Type B2, per kg, to be used for weight	each creases or decre each each each each each each each eac	eture count:	1 20 40	KG 0.00093 0.00378	\$ - \$ \$ \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.41 3.79 0.74	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S				4 \$
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection	each creases or decre each each each each each each each eac	eture count:	1 20 40	0.00093 0.00378 0.0005	\$ - \$ \$ \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 4.94 \$ \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$	0.41 3.79 0.74 - - - - 4.94	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S				
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Were Type B2, per kg, to be used for weight in	each each each each each each each each	eture count:	1 20 40	KG 0.00093 0.00378 0.0005	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$	- \$ 4.94 \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$	- 4.94 4.94 4.94 0.41 3.79 0.74 4.94 5.04	1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1	- 4.94 4.94 0.41 3.79 0.74			
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov Haul Assemble	wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Tower Type B2, per kg, to be used for weight	each creases or decre each each each each each each each eac	eture count:	1 20 40 1 1 20	KG 0.00093 0.00378 0.0005 KG 0.00116 0.00378	\$ 441.04 \$ \$ 1,002.72 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 4.94 \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$ 0.51 \$ 3.79 \$		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1	- 4.94 4.94 0.41 3.79 0.74			
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov S1-I40 Assembly and Erection of Tov Haul	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Hauling Hauling	each creases or decre each each each each each each each eac	eture count: eases	1 20 40 1 1 20 20 40	KG 0.00093 0.00378 0.0005 KG	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 4.94 \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$ 0.51 \$ 3.79 \$ 0.74 \$		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1	- 4.94 4.94 0.41 3.79 0.74 - - - - - 4.94 5.04			
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov S1-I40 Assembly and Erection of Tov Haul Assemble	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Hauling Grillage Installation Hauling Grillage Installation	each creases or decre each each each each each each each ea	eture count: eases	1 20 40 1 1 20 40	KG 0.00093 0.00378 0.0005 KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ 1,002.72 \$ \$ 1,482.09 \$ \$ 1,482.09 \$ \$ 1,482.09 \$ \$ 1,482.09 \$ \$ \$ 1,482.09 \$ \$ \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ \$ 1,482.09 \$ \$ 1,482.09 \$ \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.09 \$ 1,482.00 \$ 1,482.00 \$ 1,482.00 \$ 1,482.00 \$ 1,482.00 \$ 1,482.00 \$ 1,482.00 \$ 1,482.00 \$ 1,482	- \$ 4.94 \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1				
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov S1-I40 Assembly and Erection of Tov Haul Assemble	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Hauling Grillage Installation Hauling Grillage Installation	each creases or decre each each each each each each each eac	eture count: eases cture count: eases	1 20 40 1 1 20 40	KG 0.00093 0.00378 0.0005 KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 4.94 \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ 4.94 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1				
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov S1-I40 Assembly and Erection of Tov Haul Assemble	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Hauling Grillage Installation Hauling Grillage Installation	each creases or decre each each each each each each each eac	eture count: eases cture count: eases	1 20 40 1 1 20 40	KG 0.00093 0.00378 0.0005 KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 4.94 \$ \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 4.94 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1				
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov S1-I40 Assembly and Erection of Tov Haul Assemble	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Hauling Grillage Installation Hauling Grillage Installation	each creases or decre each each each each each each each eac	eture count: eases cture count: eases	1 20 40 1 1 20 40	KG 0.00093 0.00378 0.0005 KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ 5 1,002.72 \$ 1,482.09 \$ 5 1,002.72 \$ 1,482.09 \$ 5	- \$ 4.94 \$ \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 4.94 \$ \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1				
S1-I39 Assembly and Erection of Tov Haul Assemble Erect S1-I40 Assembly and Erection of Tov S1-I40 Assembly and Erection of Tov Haul Assemble	Wer Type B1, per kg, to be used for weight in Hauling Grillage Installation Y- Tower Erection Fower Type B2, per kg, to be used for weight in Hauling Grillage Installation Hauling Grillage Installation	each creases or decre each each each each each each each eac	eture count: eases eture count: eases	1 20 40 1 1 20 40	KG 0.00093 0.00378 0.0005 KG 0.00116 0.00378 0.0005	\$ 441.04 \$ 1,002.72 \$ 1,482.09 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 4.94 \$ \$ 0.41 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ 4.94 \$ 0.51 \$ 3.79 \$ 0.74 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1				



Valard Construction LP

	onstruction Front 3 (Newfoundland)				<u> </u>	Crew Cost						Total Unit Co	
Description			Units Total	Crew No.	Hours per unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Manhours ar Materials	
,		<u> </u>			<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>			<u> </u>			
	ower Type C1, per kg, to be used for weigh			1	KG		\$	5.26	\$	5.26	-	\$	5.26 \$
51-141 Assembly and Erection of Tow	ver Type C1, per kg, to be used for weight inc	creases or decre	eases					_					
Haul	Hauling	each	1	1	0.00093	\$ 441.04 \$	0.41 \$	0.41	1 \$	0.41			
Assemble	Grillage Installation	each	1	20	0.00378	\$ 1,002.72 \$	3.79 \$	3.79		3.79			
Erect	Tower Topping	each	1	6	0.0006	\$ 1,656.68 \$	1.06 \$	1.06		1.06			
		each	1			\$ - \$	- \$	-	1 \$	-			
		each each				\$ - \$ \$ - \$	- \$ - \$		1 \$	-			
		each	1			\$ - \$	- \$	_	1 \$	_			
		each	1			\$ - \$	- \$	-	1 \$	-			
		each	1			\$ - \$	- \$	-	1 \$	-			
						\$	5.26 \$	5.26	\$	5.26			
S1-I42 Assembly and Fraction of To	ower Type C2, per kg, to be used for weigl	ot Total struc	ture count:	1	KG		S	5.26	\$	5.26		\$	5.26 \$
S1-I42 Assembly and Erection of Tow	ver Type C2, per kg, to be used for weight inc	creases or decre	eases	•	_ 110		Ψ	3.20	Ψ	3.20	-	Ψ	3.20 ψ
	31 - 71 - 37												
Haul	Hauling	each	1	1	0.00093		0.41 \$	0.41		0.41			
Assemble	Grillage Installation	each		20	0.00378		3.79 \$			3.79			
Erect	Tower Topping	each each	1	•	0.0006	\$ 1,656.6 8 \$ - \$	1.06 \$	1.06	1 \$	1.06			
		each	1			\$ - \$	- \$	-	1 \$	-			
		each	1			\$ - \$	- \$	-	1 \$	-			
		each	1			\$ - \$	- \$		1 \$	=			
						Φ Φ	Φ.						
		each	1			\$ - \$	- \$		1 \$	-			
		each each	1			\$ - \$	- \$	-	1 \$	-			
			1						1 \$				
S1-I43 Assembly and Erection of To	ower Type D1, per ka, to be used for weig	each	1			\$ - \$	- \$ 5.26 \$	5.26	1 \$	5.26		\$	5.26 \$
S1-I43 Assembly and Erection of To S1-I43 Assembly and Erection of Tow	ower Type D1, per kg, to be used for weigl ver Type D1, per kg, to be used for weight inc	each	eture count:	1	к	\$ - \$	- \$	-	1 \$	-	; -	\$	5.26 \$
S1-I43 Assembly and Erection of Tow	ower Type D1, per kg, to be used for weigl ver Type D1, per kg, to be used for weight ind	each nt Total struc creases or decre	eture count:	1	KG	\$ - \$	5.26 \$	5.26 5.26	1 \$	5.26 5.26	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow	ver Type D1, per kg, to be used for weight ind	each Total structure or decreases or decre	eture count:	1	KG 0.00093	\$ - \$ \$ \$ \$	5.26 \$	5.26 5.26	1 \$ \$ \$	5.26 5.26	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each Total structure asses or decreases each each	eture count:	1 20	KG 0.00093 0.00378	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$	5.26 \$ 5.26 \$ \$ 0.41 \$ 3.79 \$	5.26 5.26 0.41 3.79	1 \$ \$ \$ 1 \$ 1 \$	5.26 5.26 0.41 3.79	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul	ver Type D1, per kg, to be used for weight ind	each Total structure asses or decreases each each each	eture count:	1	KG 0.00093	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$	5.26 \$ 5.26 \$ \$ 0.41 \$ 3.79 \$ 1.06 \$	5.26 5.26 0.41 3.79 1.06	1 \$ \$ \$ 1 \$ 1 \$ 1 \$	5.26 5.26	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each Total structure asses or decreases each each	eture count:	1 1 20 6	KG 0.00093 0.00378	\$ - \$ \$ \$ \$ 441.04 \$ \$ 1,002.72 \$	5.26 \$ 5.26 \$ \$ 0.41 \$ 3.79 \$	5.26 5.26 0.41 3.79	1 \$ \$ \$ 1 \$ 1 \$	5.26 5.26 0.41 3.79 1.06	.	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each reases or decre each each each each each	eture count:	1 1 20 6	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$	- \$ 5.26 \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$	5.26 5.26 0.41 3.79 1.06	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.26 5.26 0.41 3.79 1.06	<u>-</u>	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each reach each each each each each each each	eture count:	1 20 6	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$ \$ - \$	- \$ 5.26 \$ \$ \$ 5.26 \$ \$ \$ \$ 5.26 \$ \$ \$ \$ \$ \$ 6.25 \$ \$ \$ 6.25 \$ \$ 6	5.26 5.26 0.41 3.79 1.06	1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.26 5.26 0.41 3.79 1.06	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each reases or decre each each each each each each each ea	eture count:	1 20 6	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 5.26 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.26 5.26 5.26 0.41 3.79 1.06	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	5.26 5.26 5.26 0.41 3.79 1.06 - - -	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each reach each each each each each each each	eture count:	1 20 6	KG 0.00093 0.00378	\$ - \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 5.26 \$ \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	5.26 5.26 0.41 3.79 1.06	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	5.26 5.26 5.26 0.41 3.79 1.06	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble	ver Type D1, per kg, to be used for weight ind Hauling Grillage installation	each reases or decre each each each each each each each ea	eture count:	1 20 6	KG 0.00093 0.00378	\$ - \$ \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 5.26 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.26 5.26 5.26 0.41 3.79 1.06	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	5.26 5.26 5.26 0.41 3.79 1.06 - - -	-	\$	5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To	rer Type D1, per kg, to be used for weight ind Hauling Grillage installation Tower Topping December 1, per kg, to be used for weight	each creases or decre each each each each each each each eac	eture count:	1 20 6	KG 0.00093 0.00378	\$ - \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 5.26 \$ \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	5.26 5.26 0.41 3.79 1.06	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	5.26 5.26 5.26 0.41 3.79 1.06			5.26 \$ 5.26 \$
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To	Ver Type D1, per kg, to be used for weight ind Hauling Grillage Installation Tower Topping	each creases or decre each each each each each each each eac	eture count:	1 20 6	KG 0.00093 0.00378 0.0006	\$ - \$ \$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$	- \$ 5.26 \$ \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ 5.26 \$	5.26 5.26 0.41 3.79 1.06	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	5.26 5.26 0.41 3.79 1.06 5.26			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow	Hauling Grillage Installation Tower Topping Depreceding D2, per kg, to be used for weight income Type D2, per kg,	each each each each each each each each	eture count:	1 20 6	KG 0.00093 0.00378 0.0006	\$ 441.04 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$. \$ \$ \$ \$ \$ \$ \$. \$	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.26 \$	5.26 5.26 0.41 3.79 1.06 5.26 5.26	1 S S S S S S S S	- 5.26 5.26 5.26 0.41 3.79 1.06 			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow Haul	Hauling Hauling Grillage Installation Tower Topping Description Tower Topping Description Description Hauling Hauling Hauling Hauling Hauling	each each each each each each each each	eture count: cases	1 1 20 6	KG 0.00093 0.00378 0.0006 KG	\$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.26 \$	5.26 5.26 0.41 3.79 1.06 5.26 5.26	1 S S S S S S S S	- 5.26 5.26 5.26 5.26 5.26 5.26			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow Haul Assemble	Per Type D1, per kg, to be used for weight ind Hauling Grillage installation Tower Topping December Type D2, per kg, to be used for weight ind Hauling Grillage installation Hauling Grillage installation	each each each each each each each each	eture count: eases	1 20 6	KG 0.00093 0.0006 KG 0.00093 0.00378	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,002.72 \$	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.26 \$	5.26 5.26 0.41 3.79 1.06 5.26 5.26 5.26	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 5.26 5.26 5.26 5.26 1.06 - - - - - - - 5.26 5.26			
S1-I44 Assembly and Erection of Tow S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow	Hauling Hauling Grillage Installation Tower Topping Description Tower Topping Description Description Hauling Hauling Hauling Hauling Hauling	each each each each each each each each	eture count: cases	1 20 6	KG 0.00093 0.0006 KG 0.00093 0.00378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,656.68 \$ 1,056.68 \$ 1,002.72 \$	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.26 \$	5.26 5.26 0.41 3.79 1.06 5.26 5.26	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 5.26 5.26 5.26 5.26 5.26 5.26			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow Haul Assemble	Per Type D1, per kg, to be used for weight ind Hauling Grillage installation Tower Topping December Type D2, per kg, to be used for weight ind Hauling Grillage installation Hauling Grillage installation	each each each each each each each each	eture count:	1 20 6	KG 0.00093 0.00378 0.0006 KG 0.00093 0.00378 0.000378 0.0006	\$ 441.04 \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ 5.26 \$	5.26 5.26 0.41 3.79 1.06 5.26 5.26 0.41 3.79 1.06	1 S S S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	- 5.26 5.26 5.26 5.26 0.41 3.79 1.06			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow Haul Assemble	Per Type D1, per kg, to be used for weight ind Hauling Grillage installation Tower Topping December Type D2, per kg, to be used for weight ind Hauling Grillage installation Hauling Grillage installation	each each each each each each each each	eture count: eases	1 20 6	KG 0.00093 0.00378 0.0006 KG 0.00093 0.00378 0.000378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,002.	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5.26 5.26 0.41 3.79 1.06 5.26 5.26 0.41 3.79 1.06	1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1	- 5.26 5.26 5.26 5.26 5.26 5.26 5.26			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow Haul Assemble	Per Type D1, per kg, to be used for weight ind Hauling Grillage installation Tower Topping December Type D2, per kg, to be used for weight ind Hauling Grillage installation Hauling Grillage installation	each each each each each each each each	eture count: cases	1 20 6	KG 0.00093 0.00378 0.0006 KG 0.00093 0.00378 0.000378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ 1,002.72 \$ \$ \$ 1,656.68 \$ \$ - \$ \$ 1,002.72 \$ \$ 1,002.72 \$ \$ 1,002	- \$ 5.26 \$ \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ 5.26 \$ \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5.26 5.26 0.41 3.79 1.06 5.26 5.26 5.26 5.26 5.26 5.26	1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1	5.26 5.26 5.26 5.26 0.41 3.79 1.06 5.26 5.26 5.26 5.26			
S1-I43 Assembly and Erection of Tow Haul Assemble Erect S1-I44 Assembly and Erection of To S1-I44 Assembly and Erection of Tow Haul Assemble	Per Type D1, per kg, to be used for weight ind Hauling Grillage installation Tower Topping December Type D2, per kg, to be used for weight ind Hauling Grillage installation Hauling Grillage installation	each each each each each each each each	eture count: cases	1 20 6	KG 0.00093 0.00378 0.0006 KG 0.00093 0.00378 0.000378 0.0006	\$ 441.04 \$ 1,002.72 \$ 1,656.68 \$ - \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ - \$ \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,656.68 \$ \$ 1,002.72 \$ \$ 1,002.	- \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ 5.26 \$ 0.41 \$ 3.79 \$ 1.06 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	5.26 5.26 5.26 0.41 3.79 1.06 5.26 5.26 5.26 0.41 3.79 1.06	1 S S 1 S 1 S 1 S 1 S 1 S 1 S 1	5.26 5.26 5.26 5.26 0.41 3.79 1.06 5.26 5.26 5.26 0.41 3.79 1.06			



	NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland)				Crew Cost						Total Unit Cost	
Payment		Units		Hours per				I I			Manhours and	
Item	Description	Total	Crew No.	unit	Hourly Rate	Unit Cost	Subtotal	Units	Unit Cost	Materials	Materials	Total Materials
V::I45	S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weight S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weight increa		1	KG			\$ 5.26	i	\$ 5.26	-	\$ 5.26	-
	F									1		
	Haul Hauling	each	1 1	0.00093	•	·			\$ 0.41			
	Assemble Grillage Installation	each	1 20	0.00378		\$ 3.79						
	Erect Tower Topping	each	1 6	0.0006	\$ 1,656.68	\$ 1.06			\$ 1.06	<u> </u>		
		each	1		\$ -	<u> </u>	\$ -	1				
		each	1		\$ -	· _	\$ -	1				
		each	1		\$ -	<u> </u>	\$ -	1				
		each	1		\$ -		\$ -	1				
		each	1		\$ -	\$ -	\$ -	1				
		each	1		\$	\$ -		1				
						\$ 5.26	\$ 5.26	5	\$ 5.26			
V::I46	S1-I46 Survey Cost	Total structure count:	1	LS			-		\$ -	\$ 2,622,289.3	9 \$ 2,622,289.39	\$ 2,622,289.39
	S1-I46 Survey Cost											
										_		
		each	1		\$ -		\$ -	1	\$ -			
		each	1		\$ - /	\$ -	\$ -	1				
		each	1		\$ -		\$	1				
		each	1		\$ -	\$ -	\$	1				
		each	1		\$ -	\$ -	\$ -		\$ -			
		each	1		\$ -	\$ -	\$ -	1	\$ -			
		each	1		\$ -	\$ -	\$ -	1	\$ -			
		each	1		\$ -	\$ -	\$ -	1	\$ -			
		each	1		\$ -	\$ -	\$ -	1	\$ -			
		-		<u> </u>		\$ -	\$ -		\$ -			
				A						-		
B-E(Rider)	RiderPole	Total structure count:	150				\$ 1,480,010.34		\$ 9,866.74	\$ 236.9	0 \$ 10,103.64	\$ 35,535.00
	Haul Wire Hauling	each 1	50 9	3.00	\$ 405.51	\$ 1,216.52	\$ 182,478.14	150	\$ 1,216.52	1		
	Haul Wire Hauling Install Rider Pole Crew		50 16	3.00	\$ 1,238.95		\$ 557,527.03		\$ 3,716.85	1		
	D		50 16		\$ 1,238.95				\$ 3,716.85	1		
			50 9	3.00	\$ 405.51	\$ 1,216.52	\$ 182,478.14		\$ 3,716.65 \$ 1,216.52	1		
	Haul Back Wire Hauling	Eduii	30	3.00	403.31	\$ 1,210.52 \$ 9,866.74			\$ 1,216.52 \$ 9,866.74	J		
	• • • • • • •						. , ,		φ 9,000.74	<u>l</u>		A 004 070 076 64
	Construction Total		7		Mai	n Hours Total:	\$ 183,070,720.39				Mat. Total:	\$ 204,272,679.94



			1				2			3			4	ļ		5	
			Haul	ing		Site Pre			Block					ssembly		_	ection
Designation		Rate	No.		Rate	No.	-	Rate	No.		Rate	No.	1	Rate	No.		Rate
Supervisor	\$	142.83		\$	-		\$	-		\$	-		\$	-		\$	-
Foreman	\$	120.15		\$	-	0.50	\$	60.07		\$	-	1.00	\$	120.15	1.00	\$	120.15
Surveyor Lineman	\$ \$	111.85 111.85		\$	-	0.50	\$ \$	55.92		\$ \$	-	1.00	\$ \$	111.85	2.00	\$	223.70
Apprentice - 4th Year	\$	103.90		\$	-		\$	-		\$	-	2.00	\$	207.79	1.00	\$	103.90
Apprentice - 3rd Year	\$	95.95	4.00	\$	- 07.00		\$	-	1.00	\$	95.95	2.00	\$	191.89	2.00	\$	191.89
Apprentice - 2nd Year Apprentice - 1st Year	\$ \$	87.99 80.04	1.00	\$	87.99		\$ \$	-		\$ \$	-		\$	-		\$	
Equipment Operator	\$	96.49		\$	-	2.00	\$	192.99	1.00	\$	96.49	1.00	\$	96.49	1.00	\$	96.49
Truck Driver / Picker Op.	\$	107.16 87.44	1.00	\$	107.16		\$ \$	-		\$	-	1.00	\$ \$	107.16	2.00	\$	214.32
Labourer 3rd Party Density Tester	\$	243.80		\$	-		\$	-		\$	-		\$			\$	
Carpenter	\$	100.05		\$	-		\$	-		\$	-		\$	-		\$	-
Telecom Foreman Telecom Cable Splicer	\$	87.44 87.44		\$	-		\$ \$	-		\$	-		\$ \$	-		\$	-
Included Super or Operator	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
none	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
TOTAL LABOUR			2.00		195.16	3.00	I	308.98	2.00		192.44	8.00		835.34	9.00		950.45
TOTAL LABOUR			2.00		195.10	3.00	<u> </u>	300.90	2.00		192.44	0.00		033.34	9.00		950.45
Pickup	\$	24.36		\$	-	0.50	\$	12.18		\$	-		\$	-		\$	-
Crew Cab Truck Conductor Splicing Truck	\$	29.20 46.02	1.00	\$	29.20	1.00	\$	29.20		\$	<u>-</u>	2.00	\$	58.40	2.00	\$	58.40
OPGW Splicing Truck	\$	93.60		\$	-		\$	-		\$			\$	-		\$	
Picker - 17 Ton	\$	136.27		\$	-		\$	-		\$	-	1.00	\$	136.27		\$	-
Picker - 38 Ton 40T RT Crane	\$	180.25 195.70		\$	-		\$ \$	<u>-</u>		\$	-		\$		1.00	\$	180.25
60T RT Crane	\$	247.20		\$	-		\$	-		\$			\$	<u>-</u>	1.00	\$	247.20
80T RT Crane	\$	345.05		\$	-		\$	-		\$	-		\$			\$	-
Digger - TelElect 5052 200T All-Tr. crane	\$	89.40 418.72		\$	-		\$ \$	<u>-</u>	1.00	\$	89.40		\$	-	-	\$	-
Texoma	\$	162.23		\$	-		\$	-		\$	-		\$	/		\$	-
Quad or Side by Side	\$	24.21		\$	-		\$	-		\$	-		\$	_		\$	-
120' Gene Lift 53' Tridem trailer	\$	87.55 11.85	4.00	\$	- 47.38		\$			\$	-	0.25	\$	21.89	-	\$	<u>-</u>
T/A Gravel Truck	\$	68.13	4.00	\$	-		\$			\$	-		\$	<u> </u>		\$	<u> </u>
T/A Rock Truck	\$	121.67		\$	-		\$	-		\$			\$	-		\$	-
Watson 1010 Watson 1100	\$	190.55 247.20		\$	<u>-</u> /_		\$			\$			\$	-		\$	-
Watson 2500	\$	309.00		\$	-		\$			\$	-		\$	-		\$	-
Soilmec SR65	\$	437.75		\$			\$			\$			\$	-		\$	-
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$	134.67 134.67	1.00	\$	134.67	-	\$			\$	<u>-</u>		\$	<u>-</u>		\$	-
Self-Loader	\$	134.67		\$	-		\$			\$	-		\$	-		\$	-
55' Bucket Truck	\$	81.11		\$	-		\$	-		\$	-		\$	-		\$	-
Pole Trailer Crawler Tractors 750 JD	\$	22.04 165.83		\$	-	1.00	\$	165.83		\$	-		\$ \$	<u>-</u>		\$	<u>-</u>
JD 310 Back Hoe	\$	68.13		\$	Ţ.	,,,,	\$			\$	-		\$	-		\$	-
JD 554 Loader	\$	69.27	0.50	\$	34.63		\$	_		\$	-	0.50	\$	34.63	1.00	\$	69.27
JD 290 Track-hoe Skid-Steer Loader	\$	130.6 0 38.11		\$	-	1.00	\$	130.60		\$	-	_	\$	<u>-</u>		\$	<u>-</u>
Nodwells - Picker up to 17 Ton	\$	170.36		\$	-		\$	-		\$	-		\$	-		\$	-
Nodwells - Picker over 17 Ton	\$	228.25		\$	-		\$	-		\$	-		\$	-		\$	-
Nodwell - Digger Trencher	\$	130.60 84.36		\$	-		\$	-		\$	-		\$ \$	<u>-</u>		\$	<u>-</u>
10T Tele-Handler	\$	53.00		\$	-/		\$	-		\$	-	1.00	\$	53.00		\$	-
LGP Texoma Nodwell	\$	162.23		\$	-		\$	-		\$	-		\$	-		\$	-
LGP Highboy ROW Trailer Quad or Side by Side	\$	32.45 24.21		\$	<u>-</u>		\$	<u>-</u>		\$	-	1.00	\$ \$	24.21		\$	-
Reel Trailer	\$	72.10		\$	-		\$	-		\$	-		\$	-		\$	-
Tensioner Duller	\$	139.05		\$	-		\$	-		\$	-		\$	-		\$	-
Puller 1 Drum Puller	\$	139.05 77.25		\$	<u>-</u>		\$ \$	<u>-</u>		\$	-		\$ \$	<u>-</u>		\$	-
Single Tensioner	\$	77.25		\$	-		\$	-		\$	-		\$	-		\$	-
Single Traveller	\$	0.52		\$	-		\$	-		\$	-		\$	-		\$	-
JD 350 LDC Excavator Compressor	\$	160.89 22.04		\$	-		\$ \$	-		\$	-		\$	<u>-</u>		\$	-
Grout truck	\$	82.40		\$	-		\$	-		\$	-		\$	-		\$	-
Rock Drill	\$	103.00		\$	-		\$	-		\$	-		\$	-		\$	-
Press & Pump, Genset, Light plant Water pump	\$	13.46 40.99		\$	-		\$ \$	-		\$	-	1.50	\$ \$	20.19	1.00	\$	13.46
Pilot Line Winder	\$	92.70		\$	-		\$	-		\$	-		\$	-		\$	-
Wire Winder	\$	17.69		\$	-		\$	-		\$	-		\$	-		\$	-
Spacer Buggy Travellers (ea)	\$	46.35 1.24		\$	-		\$ \$	<u>-</u>		\$	-		\$ \$	<u>-</u>		\$	<u>-</u>
Traffic Control Sign	\$	21.84		\$	-		\$	-		\$	-		\$	-		\$	-
Hoe-Pack	\$	25.75		\$	-		\$	-		\$	-		\$	_		\$	-
Pile Driving Crew (per m)	\$	211.07		\$	-		\$	-		\$	-		\$	-		\$	-
Concrete Pumper Survey Equipment	\$ \$	206.00 56.65		\$	-	0.50	\$ \$	28.33		\$ \$	-		\$ \$	<u>-</u>		\$	-
Heavy Lift Helicopter - Operated	\$	17,725.89		\$	-	0.00	\$	-		\$	-		\$	-		\$	-
Medium Lift Helicopter - Operated		3,071.98		\$	-		\$	-		\$			\$	-		\$	-
Light Duty Helicopter - Operated TOTAL EQUIPMENT	\$	1,905.50	6.50	\$	245.89	- 4.00	\$	366.14	1.00	\$	89.40	7.25	\$	348.59	6.00	\$	568.58
- J = WON INFINI			0.50		_ 10.03	7.00		555.17	1.00			20		U-10.03	3.00		200.00
TOTAL CREW RATE				\$	441.04		\$	675.12		\$	281.84		\$	1,183.92		\$	1,519.02



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			Tov		opping	Haul Trav		rs&Glass	Hang		rellers	Wire	Hau		Pull		rep
Designation		Data	No.		Rate	No.		Rate	No.		Rate	No.		Rate	No.	<u> </u>	Rate
Designation Supervisor	\$	Rate 142.83		\$	-		\$	-		\$			\$	_		\$	
Foreman	\$	120.15	1.00	\$	120.15		\$	-	1.00	\$	120.15		\$	-	1.00	\$	120.15
Surveyor Lineman	\$	111.85	2.00	\$	- 222.70	1.00	\$ \$	- 111.05	2.00	\$	225.55		\$	-	1.00	\$	111.05
Lineman Apprentice - 4th Year	\$	111.85 103.90	2.00	\$	223.70 103.90	1.00	\$	111.85 -	3.00	\$	335.55		\$	-	1.00	\$	111.85
Apprentice - 3rd Year	\$	95.95	2.00	\$	191.89		\$	-	3.00	\$	287.84		\$	-		\$	-
Apprentice - 2nd Year Apprentice - 1st Year	\$ \$	87.99 80.04		\$	-	1.00	\$ \$	87.99		\$	-	1.00	\$	87.99	2.00	\$ \$	175.99
Equipment Operator	\$	96.49	1.00	\$	96.49	1.00	\$	96.49	1.00	\$	96.49		\$	-	3.00	\$	289.48
Truck Driver / Picker Op.	\$	107.16	2.00	\$	214.32	1.00	\$	107.16	-	\$	-	1.00	\$	107.16	1.00	\$	107.16
Labourer 3rd Party Density Tester	\$ \$	87.44 243.80		\$	-		\$	-		\$	-		\$	-	-	\$ \$	-
Carpenter Carpenter	\$	100.05		\$	-		\$	-		\$	-		\$	-		\$	-
Telecom Foreman	\$	87.44		\$	-		\$	-		\$	-		\$	-		\$	-
Telecom Cable Splicer Included Super or Operator	\$ \$	87.44		\$	-		\$	-		\$	<u>-</u>		\$	-		\$ \$	-
none	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
TOTAL LABOUR			0.00		050.45	4.00	1	400.50	0.00		040.00	0.00		405.40	0.00	1	004.00
TOTAL LABOUR			9.00		950.45	4.00	<u> </u>	403.50	8.00		840.02	2.00		195.16	8.00	<u> </u>	804.62
Pickup	\$	24.36	1.00	\$	24.36		\$	-		\$	-		\$	-	1.00	\$	24.36
Crew Cab Truck	\$	29.20	2.00	\$	58.40	1.00	\$	29.20	2.00	\$	58.40	1.00	\$	29.20	1.00	\$	29.20
Conductor Splicing Truck OPGW Splicing Truck	\$ \$	46.02 93.60		\$	-		\$	-		\$	-		\$	-		\$	-
Picker - 17 Ton	\$	136.27		\$	-		\$	-		\$	_		\$	-		\$	-
Picker - 38 Ton	\$	180.25	4.00	\$	- 105.70		\$	-		\$	-		\$			\$	-
40T RT Crane 60T RT Crane	\$ \$	195.70 247.20	1.00	\$	195.70 -		\$	-		\$			\$			\$	-
80T RT Crane	\$	345.05	1.00	\$	345.05		\$	-		\$			\$			\$	-
Digger - TelElect 5052 200T All-Tr. crane	\$	89.40 418.72	_	\$	-		\$	<u>- /</u>		\$	-		\$	-	1.00	\$	89.40
Texoma	\$	162.23		\$	-		\$	-		\$			\$			\$	-
Quad or Side by Side	\$	24.21		\$	-		\$	_		\$	-		\$			\$	-
120' Gene Lift 53' Tridem trailer	\$ \$	87.55 11.85	-	\$	-		\$	-		\$		1.00	\$	11.85		\$	-
T/A Gravel Truck	\$	68.13		\$	-		\$			\$	<u> </u>	1.00	\$	-		\$	
T/A Rock Truck	\$	121.67		\$	-		\$	-		\$			\$	-		\$	-
Watson 1010 Watson 1100	\$ \$	190.55 247.20		\$	-		\$	-		\$			\$	-		\$	-
Watson 2500	\$	309.00		\$	-/-		\$			\$	-		\$	-		\$	-
Soilmec SR65	\$	437.75		\$	-	4.00	\$	404.07		\$			\$	-		\$	-
Tractor Trailer/Picker Tractor Trailer (Heavy)	\$	134.67 134.67		\$	-	1.00	\$	134.67		\$	-	1.00	\$	134.67	1.00	\$	134.67
Self-Loader	\$	134.67		\$	-		\$			\$	-		\$	-		\$	-
55' Bucket Truck Pole Trailer	\$ \$	81.11 22.04		\$			\$			\$	<u>-</u>		\$	<u> </u>		\$ \$	-
Crawler Tractors 750 JD	\$	165.83		\$			\$	-		\$	-		\$	-		\$	
JD 310 Back Hoe	\$	68.13		\$			\$	-		\$	-		\$	-		\$	-
JD 554 Loader JD 290 Track-hoe	\$ \$	69.27 130.6 0	1.00	\$	69.27	1.00	\$	69.27	1.00	\$	69.27	0.50	\$	34.63	1.00 1.00	\$	69.27 130.60
Skid-Steer Loader	\$	38.11		\$	-		\$			\$	-		\$	-	1.00	\$	-
Nodwells - Picker up to 17 Ton	\$	170.36		\$	-		\$	-		\$	-		\$	-		\$	-
Nodwells - Picker over 17 Ton Nodwell - Digger	\$ \$	228.25 130.60		\$	-		\$ \$	-	-	\$	-		\$	-		\$	_
Trencher Trencher	\$	84.36		\$	-		\$	-		\$	-		\$	-		\$	-
10T Tele-Handler	\$	53.00		\$	-		\$	-		\$	-		\$	-		\$	-
LGP Texoma Nodwell LGP Highboy ROW Trailer	\$	162.23 32.45		\$			\$	-		\$	-		\$	-		\$	-
Quad or Side by Side	\$	24.21		\$	-		\$	-		\$	-		\$	-		\$	-
Reel Trailer	\$	72.10 139.05		\$	-		\$	-		\$	-		\$	-		\$	-
Tensioner Puller	\$ \$	139.05		\$	-		\$	-		\$	-		\$	-		\$	-
1 Drum Puller	\$	77.25		\$	-		\$	-		\$	-		\$			\$	-
Single Tensioner Single Traveller	\$ \$	77.25 0.52		\$	-		\$	-		\$	<u>-</u>		\$	<u>-</u>		\$	-
JD 350 LDC Excavator	\$	160.89		\$	-		\$	-		\$	-		\$	-		\$	
Compressor	\$	22.04		\$	-		\$	-		\$	-		\$	-		\$	-
Grout truck Rock Drill	\$ \$	82.40 103.00		\$	-		\$	-		\$	-		\$	-		\$	-
Press & Pump, Genset, Light plant		13.46	1.00	\$	13.46		\$	<u>-</u>		\$	-		\$	-		\$	-
Water pump	\$	40.99		\$	-		\$	-		\$	-		\$	-		\$	-
Pilot Line Winder Wire Winder	\$	92.70 17.69		\$	-		\$	-		\$	<u>-</u>		\$	-		\$	-
Spacer Buggy	\$	46.35		\$	-		\$	-		\$	-		\$	-		\$	-
Travellers (ea)	\$	1.24		\$	-		\$	-		\$	-		\$	-		\$	-
Traffic Control Sign Hoe-Pack	\$	21.84 25.75		\$	-		\$	-		\$	<u>-</u>		\$	-		\$	<u>-</u> -
Pile Driving Crew (per m)	\$	211.07		\$	-		\$	-		\$	-		\$	-		\$	-
Concrete Pumper	\$	206.00		\$	-		\$	-		\$	-		\$	-		\$	-
Survey Equipment Heavy Lift Helicopter - Operated	\$	56.65 17,725.89		\$	-		\$	-		\$	-		\$	<u>-</u>		\$	<u>-</u>
Medium Lift Helicopter - Operated	_	3,071.98		\$	-		\$	-		\$	-		\$	-		\$	-
Light Duty Helicopter - Operated	\$	1,905.50	7.00	\$	706 23	2.00	\$	- 222 14	0.25	\$	476.38	2.50	\$	210.25	6.00	\$	- 477 F4
TOTAL EQUIPMENT			7.00		706.23	3.00	<u> </u>	233.14	3.25		604.04	3.50		210.35	0.00	<u> </u>	477.51
TOTAL CREW RATE				\$	1,656.68		\$	636.64		\$	1,444.07		\$	405.51		\$	1,282.13



			11	1		12			13			14			15		
			St		ging	Ti	ie -ir			aden	ds	Spac		rews	OP	GW In:	stall
		D (No.		Rate	No.		Rate	No.		Rate	No.		Rate	No.		Rate
Designation Supervisor	\$	Rate 142.83	1.00	\$	142.83		\$	_		\$	_		\$			\$	_
Foreman	\$	120.15	2.00	\$			\$	-	1.00	\$	120.15	1.00	\$	120.15	1.00	\$	120.15
Surveyor	\$	111.85	1.00	\$			\$	-		\$	-		\$	-		\$	-
Lineman Apprentice - 4th Year	\$	111.85 103.90	7.00	\$	782.94	2.00	\$	223.70	2.00	\$	223.70	3.00	\$	311.69	3.00 1.00	\$	335.55 103.90
Apprentice - 3rd Year	\$	95.95	4.00	\$	383.78		\$	-	2.00	\$	191.89	3.00	\$	-	2.00	\$	191.89
Apprentice - 2nd Year	\$	87.99		\$		1.00	\$	87.99		\$	-	1.00	\$	87.99		\$	-
Apprentice - 1st Year	\$	80.04	0.00	\$			\$	-	0.00	\$	-		\$	-	4.00	\$	-
Equipment Operator Truck Driver / Picker Op.	\$ \$	96.49 107.16	6.00 7.00	\$		1.00	\$	107.16	2.00 1.00	\$	192.99 107.16	1.00	\$	107.16	4.00 3.00	\$	385.97 321.48
Labourer	\$	87.44	7.00	\$		1.00	\$	-	1.00	\$	-	1.00	\$	-	0.00	\$	-
3rd Party Density Tester	\$	243.80		\$			\$	-		\$	-		\$	-		\$	-
Carpenter Telecom Foreman	\$ \$	100.05 87.44		\$			\$	-		\$	-		\$	-		\$ \$	-
Telecom Cable Splicer	\$	87.44		\$			\$	-		\$	-		\$	-		\$	-
Included Super or Operator	\$	-		\$			\$	-		\$			\$	-		\$	-
none	\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
TOTAL LABOUR			28.00		2,990.79	4.00		418.85	8.00		835.88	6.00		626.99	14.00		1,458.94
	•				,												·
Pickup	\$	24.36	2.00	\$		4.00	\$	-	0.00	\$	-	1.00	\$	24.36	2.00	\$	48.72
Crew Cab Truck Conductor Splicing Truck	\$	29.20 46.02	7.00 1.00	\$		1.00	\$	29.20	2.00	\$	58.40 -	1.00	\$	29.20	3.00	\$	87.60 -
OPGW Splicing Truck	\$	93.60		\$			\$	-		\$			\$			\$	-
Picker - 17 Ton	\$	136.27	-	\$			\$	-		\$	-		\$	-		\$	-
Picker - 38 Ton 40T RT Crane	\$	180.25 195.70	2.00	\$			\$	-	1.00	\$	180.25	1.00	\$	180.25	2.00	\$	391.40
60T RT Crane	\$	247.20	2.00	\$			\$	-		\$	-		\$	-	2.00	\$	391.40
80T RT Crane	\$	345.05		\$	-		\$	-		\$	-		\$			\$	_
Digger - TelElect 5052	\$	89.40	1.00	\$			\$	-		\$	-		\$	·	1.00	\$	89.40
200T All-Tr. crane Texoma	\$ \$	418.72 162.23		\$			\$	<u>-</u>		\$	-		\$	-		\$ \$	
Quad or Side by Side	\$	24.21		\$			\$	-		\$			\$	-		\$	-
120' Gene Lift	\$	87.55		\$			\$	-		\$	-		\$	-		\$	-
53' Tridem trailer T/A Gravel Truck	\$ \$	11.85 68.13		\$			\$			\$			\$ \$			\$ \$	-
T/A Rock Truck	\$	121.67		\$			\$			\$			\$	-		\$	
Watson 1010	\$	190.55		\$	-		\$	-		\$	-		\$	-		\$	-
Watson 1100	\$	247.20		\$			\$	·		\$			\$	-		\$	-
Watson 2500 Soilmec SR65	\$ \$	309.00 437.75		\$			\$			\$			\$	<u> </u>		\$	<u>-</u>
Tractor Trailer/Picker	\$	134.67	-	\$	_		\$			\$	/		\$	-	-	\$	-
Tractor Trailer (Heavy)	\$	134.67	2.00	\$			\$			\$			\$		1.00	\$	134.67
Self-Loader 55' Bucket Truck	\$	134.67 81.11		\$			\$			\$			\$	<u>-</u>		\$	-
Pole Trailer	\$	22.04		\$			\$			\$	-		\$	-		\$	-
Crawler Tractors 750 JD	\$	165.83	2.00	\$			\$	-	1.00	\$	165.83		\$	-	1.00	\$	165.83
JD 310 Back Hoe JD 554 Loader	\$	68.13 69.27	2.00	\$			\$	-		\$	-		\$	-	1.00	\$	69.27
JD 290 Track-hoe	\$	130.60	2.00	\$			\$	-	1.00	\$	130.60		\$		1.00	\$	-
Skid-Steer Loader	\$	38.11		\$			\$	-		\$	-		\$	-		\$	-
Nodwells - Picker up to 17 Ton	\$	170. 36 228.25	2.00	\$		1.00	\$	-		\$	-		\$	-		\$	-
Nodwells - Picker over 17 Ton Nodwell - Digger	\$ \$	130.60	2.00	\$	_	1.00	\$ \$	228.25		\$	-		\$	<u> </u>		\$	<u>-</u>
Trencher	\$	84.36		\$			\$	-		\$	-		\$	-		\$	-
10T Tele-Handler	\$	53.00		\$			\$	-		\$	-		\$	-		\$	-
LGP Texoma Nodwell LGP Highboy ROW Trailer	\$	162.23 32.45		\$ \$			\$	-		\$	-		\$	-		\$ \$	-
Quad or Side by Side	\$	24.21		\$	_		\$	-		\$	-		\$	-		\$	
Reel Trailer	\$	72.10	3.00	\$	216.30		\$	-		\$	-		\$	-	1.00	\$	72.10
Tensioner Puller	\$ ¢	139.05	1.00	\$			\$	-		\$	-		\$	-		\$	-
Puller 1 Drum Puller	\$	139.05 77.25	1.00	\$			\$	-		\$	-		\$	<u>-</u>	1.00	\$	77.25
Single Tensioner	\$	77.25		\$			\$	-		\$	-		\$	-	1.00	\$	77.25
Single Traveller	\$	0.52		\$			\$	-		\$	-		\$	-	50.00	\$	25.75
JD 350 LDC Excavator Compressor	\$ \$	160.89 22.04		\$ \$			\$	-		\$	-		\$	-		\$	<u>-</u>
Grout truck	\$	82.40		\$			\$	-		\$	-		\$	-		\$	-
Rock Drill	\$	103.00		\$	-		\$	-		\$	-		\$	-		\$	_
Press & Pump, Genset, Light plant		13.46	1.00	\$			\$	-	1.00	\$	13.46		\$	-		\$	-
Water pump Pilot Line Winder	\$ \$	40.99 92.70		\$	-		\$	-		\$	-		\$	-	1.00	\$ \$	92.70
Wire Winder	\$	17.69		\$			\$	-		\$	-		\$	-		\$	-
Spacer Buggy	\$	46.35	,	\$			\$	-		\$	-	3.00	\$	139.05		\$	-
Travellers (ea) Traffic Control Sign	\$ \$	1.24 21.84	150.00	\$			\$	-		\$	-		\$	-		\$	-
Hoe-Pack	\$	25.75		\$			\$	-		\$	-		\$	-		\$	-
Pile Driving Crew (per m)	\$	211.07		\$	-		\$	-		\$	-		\$	-		\$	-
Concrete Pumper	\$	206.00	4.5-	\$			\$	-		\$	-		\$	-		\$	
Survey Equipment Heavy Lift Helicopter - Operated	\$	56.65 17,725.89	1.00	\$			\$	-		\$	-		\$	<u>-</u>		\$	-
Medium Lift Helicopter - Operated		3,071.98		\$			\$	-		\$	-		\$	-		\$	-
Light Duty Helicopter - Operated	\$	1,905.50		\$	-		\$	-		\$	-		\$	-		\$	-
			180.00	l	2,987.10	2.00	I	257.45	6.00	l	548.54	6.00		372.86	65.00	1	1,331.94
TOTAL EQUIPMENT					,	<u> </u>		<u>'</u>						0.12.00	00.00		,



			16		17		18		19		20
		Rider I	Pole Crew	Found	ation Haul		Survey (\$250/h)		Excavation	Grillage	Installation
Designation	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Supervisor	\$ 142.83		\$ -	_	\$ -		\$ -		\$ -		\$ -
Foreman	\$ 120.15	1.00	\$ 120.15	-	\$ -		\$ -	1.00	\$ 120.15	1.00	\$ 120.15
Surveyor	\$ 111.85		\$ -	-	\$ -	2.00	\$ 223.70	1.00	\$ 111.85	1.00	\$ 111.85
Lineman	\$ 111.85	1.00	\$ 111.85	-	\$ -		\$ -		\$ -		\$ -
Apprentice - 4th Year	\$ 103.90		\$ -	-	\$ -		\$ -		\$ -	0.00	\$ -
Apprentice - 3rd Year Apprentice - 2nd Year	\$ 95.95 \$ 87.99	2.00	\$ - \$ 175.99	1.00	\$ - \$ 87.99		\$ - \$ -		\$ - \$ -	2.00	\$ 191.89 \$ -
Apprentice - 1st Year	\$ 80.04	2.00	\$ -	-	\$ -		\$ -	1.00	\$ 80.04		\$ -
Equipment Operator	\$ 96.49	1.00	\$ 96.49	-	\$ -		\$ -	3.00	\$ 289.48	1.00	\$ 96.49
Truck Driver / Picker Op.	\$ 107.16	2.00	\$ 214.32	1.00	\$ 107.16		\$ -		\$ -	1.00	\$ 107.16
Labourer	\$ 87.44		\$ -	-	\$ -		\$ -		\$ -		\$ -
3rd Party Density Tester	\$ 243.80 \$ 100.05		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Carpenter Telecom Foreman	\$ 100.03		\$ -		\$ -		\$ -		\$ -		\$ -
Telecom Cable Splicer	\$ 87.44		\$ -	_	\$ -		\$ -		\$ -		\$ -
Included Super or Operator	\$ -		\$ -	-	\$ -		\$ -		\$ -		\$ -
none	\$ -		\$ -	-	\$ -		\$ -		\$ -		\$ -
TOTAL LABOUR		7.00	740.00	0.00	405.40	0.00	000.70	0.00	CO4 FO	0.00	007.54
TOTAL LABOUR		7.00	718.80	2.00	195.16	2.00	223.70	6.00	601.52	6.00	627.54
Pickup	\$ 24.36		\$ -	-	\$ -	1.00	\$ 24.36	1.00	\$ 24.36	1.00	\$ 24.36
Crew Cab Truck	\$ 29.20	1.00	\$ 29.20	1.00	\$ 29.20	-	\$ -	1.00		1.00	\$ 29.20
Conductor Splicing Truck	\$ 46.02		\$ -	-	\$ -		\$ -		\$ -		\$ -
OPGW Splicing Truck	\$ 93.60		\$ -	-	\$ -		\$ -		\$ -		\$ -
Picker - 17 Ton Picker - 38 Ton	\$ 136.27 \$ 180.25	1.00	\$ 136.27 \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
40T RT Crane	\$ 180.25 \$ 195.70		\$ -	-	\$ -		\$ -		\$ -	1.00	\$ - \$ 195.70
60T RT Crane	\$ 247.20		\$ -	-	\$ -		\$ -		\$ -	1.00	\$ 195.70
80T RT Crane	\$ 345.05		\$ -	-	\$ -		\$ -		\$ -		\$ -
Digger - TelElect 5052	\$ 89.40	1.00	\$ 89.40	-	\$ -		\$ -		\$ -		\$ -
200T All-Tr. crane	\$ 418.72		\$ -	-	\$ -		\$ -		\$ -		\$ -
Texoma Ouad or Side by Side	\$ 162.23 \$ 24.21		\$ -	-	\$ - \$ -		\$ -		\$ -		\$ -
Quad or Side by Side 120' Gene Lift	\$ 24.21 \$ 87.55		\$ - \$ -	-	\$ -		\$ - \$ -		\$ -		\$ - \$ -
53' Tridem trailer	\$ 67.35 \$ 11.85		\$ -	4.00	\$ 47.38		\$ -		\$ -		\$ -
T/A Gravel Truck	\$ 68.13		\$ -	-	\$ -		\$ -		\$ -		\$ -
T/A Rock Truck	\$ 121.67		\$ -	-	\$ -		\$ -		\$ -		\$ -
Watson 1010	\$ 190.55		\$ -	-	\$ -		\$ -		\$ -		\$ -
Watson 2500	\$ 247.20 \$ 309.00		\$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Watson 2500 Soilmec SR65	\$ 309.00 \$ 437.75		\$ -	<u> </u>	\$ -		\$ -		\$ - \$ -		\$ - \$ -
Tractor Trailer/Picker	\$ 134.67		\$ -	1.00	\$ 134.67		\$ -		\$ -		\$ -
Tractor Trailer (Heavy)	\$ 134.67	1.00	\$ 134.67	-	\$ -		\$ -		\$ -		\$ -
Self-Loader	\$ 134.67		\$ -	-	\$ -		\$ -		\$ -		\$ -
55' Bucket Truck	\$ 81.11		\$ -	-	\$ -		\$ -		\$ -		\$ -
Pole Trailer Crawler Tractors 750 JD	\$ 22.04 \$ 165.83		\$ -		\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
JD 310 Back Hoe	\$ 68.13		\$ -		\$ -		\$ -		\$ -		\$ -
JD 554 Loader	\$ 69.27	7	\$ -	0.50	\$ 34.63		\$ -	1.00	\$ 69.27	1.00	\$ 69.27
JD 290 Track-hoe	\$ 130.60	1.00	\$ 130.60	-	\$ -		\$ -		\$ -		\$ -
Skid-Steer Loader	\$ 38.11		\$ -	-	\$ -		\$ -		\$ -		\$ -
Nodwells - Picker up to 17 Ton	\$ 170.36 \$ 228.25		\$ -	-	\$ -		\$ -		\$ -		\$ -
Nodwells - Picker over 17 Ton Nodwell - Digger	\$ 228.25 \$ 130.60		\$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Trencher	\$ 84.36		\$ -	-	\$ -		\$ -		\$ -		\$ -
10T Tele-Handler	\$ 53.00		\$ -	-	\$ -		\$ -		\$ -		\$ -
LGP Texoma Nodwell	\$ 162. 23	<u> </u>	\$	-	\$ -		\$ -		\$ -		\$ -
LGP Highboy ROW Trailer	\$ 32.45		\$ -	-	\$ -		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -	-	\$ -	1.00	\$ 24.21		\$ -		\$ -
Reel Trailer Tensioner	\$ 72.10 \$ 139.05		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Puller	\$ 139.05		\$ -	-	\$ -		\$ -		\$ -		\$ -
1 Drum Puller	\$ 77.25		\$ -	-	\$ -		\$ -		\$ -		\$ -
Single Tensioner	\$ 77.25		\$ -	-	\$ -		\$ -		\$ -		\$ -
Single Traveller	\$ 0.52		\$ -	-	\$ -		\$ -		\$ -		\$ -
JD 350 LDC Excavator	\$ 160.89		\$ -	-	\$ -		\$ -	2.00	\$ 321.77		\$ -
Compressor Grout truck	\$ 22.04 \$ 82.40		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Rock Drill	\$ 103.00		\$ -	-	\$ -		\$ -		\$ -		\$ -
Press & Pump, Genset, Light plant			\$ -	-	\$ -		\$ -		\$ -		\$ -
Water pump	\$ 40.99		\$ -	-	\$ -		\$ -	1.00	\$ 40.99		\$ -
Pilot Line Winder	\$ 92.70		\$ -	-	\$ -		\$ -		\$ -		\$ -
Wire Winder Spacer Buggy	\$ 17.69 \$ 46.35		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Spacer Buggy Travellers (ea)	\$ 46.35 \$ 1.24		\$ - \$ -	-	\$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Traffic Control Sign	\$ 21.84		\$ -	-	\$ -		\$ -		\$ -		\$ -
Hoe-Pack	\$ 25.75		\$ -	-	\$ -		\$ -		\$ -		\$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -	-	\$ -		\$ -		\$ -		\$ -
Concrete Pumper	\$ 206.00		\$ -	-	\$ -		\$ -		\$ -		\$ -
Survey Equipment	\$ 56.65 \$ 17.725.89		\$ -	-	\$ - \$ -	1.00		1.00		1.00	\$ 56.65
Heavy Lift Helicopter - Operated Medium Lift Helicopter - Operated	\$ 17,725.89 \$ 3,071.98		\$ - \$ -	-	\$ - \$ -		\$ - \$ -		\$ - \$ -		\$ - \$ -
Light Duty Helicopter - Operated	\$ 1,905.50		\$ -	-	\$ -		\$ -		\$ -		\$ -
TOTAL EQUIPMENT		5.00	520.15	6.50	245.89	3.00	105.21	7.00	542.24	5.00	375.18
								_ 		_ 	
TOTAL CREW RATE			\$ 1,238.95		\$ 441.04	I	\$ 328.91	I	\$ 1,143.76	I	\$ 1,002.72



										23			24			25		26
		Backfill	21 and C	ompact	Site	22 Clea		Gro	ut Cr	ew	Concrete		ındations	Grou	nd Testing		Crew	
	_		No.	F	Rate	No.		Rate	No.		Rate	No.		Rate	No.	Rate	No.	Rate
Designation	Rate			r			r.			•			ф.			r.		r.
Supervisor Foreman		20.15		\$	-		\$	-		\$	-	1.00	\$	- 120.15		\$ - \$ -		\$ - \$ -
Surveyor	_	1.85	0.50	\$	55.92		\$	-		\$	_	1.00	_	111.85		\$ -		\$ -
Lineman		1.85		\$	-		\$	-		\$	-		\$	-	1.00	\$ 111.85		\$ -
Apprentice - 4th Year	\$ 10	3.90		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Apprentice - 3rd Year	_	5.95		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Apprentice - 2nd Year	•	37.99		\$	-		\$	-	0.00	\$	-		\$	-		\$ -	0.00	\$ -
Apprentice - 1st Year Equipment Operator	•	0.04 06.49	3.00	\$	- 289.48	1.00	\$	96.49	2.00	\$	160.08		\$	-	1.00	\$ - \$ 96.49	2.00	\$ 160.08 \$ -
Truck Driver / Picker Op.	•	7.16	3.00	\$	-	1.00	\$	-		\$	_	1.00	_	107.16	1.00	\$ -		\$ -
Labourer	•	37.44	1.00	\$	87.44		\$	-		\$	-	2.00	_	174.87		\$ -		\$ -
3rd Party Density Tester		13.80	-	\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Carpenter		0.05		\$	-		\$	-	1.00	\$	100.05	1.00	\$	100.05		\$ -		\$ -
Telecom Foreman	•	37.44		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Telecom Cable Splicer Included Super or Operator	\$ 8 \$	37.44		\$	-		\$	-		\$	-		\$	-		\$ - \$ -		\$ - \$ -
none none	\$	-		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
	*			,			, ,			,			,			<u> </u>		· ·
TOTAL LABOUR			4.50		432.84	1.00		96.49	3.00		260.13	6.00		614.08	2.00	208.34	2.00	160.08
	1						1									,		
Pickup		24.36	0.50	\$	12.18	4.00	\$	-	-	\$	-	2.00	\$	48.72	4.00	\$ -	2.00	\$ 48.72
Crew Cab Truck Conductor Splicing Truck	•	29.20 16.02	2.00	\$	58.40	1.00	\$	29.20	1.00	\$	29.20	1.00	\$	29.20	1.00	\$ 29.20 \$ -		\$ - \$ -
OPGW Splicing Truck		3.60		\$	_		\$	-		\$	-		\$	-		\$ -		\$ -
Picker - 17 Ton		36.27		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Picker - 38 Ton		30.25		\$	-		\$	-		\$	/	1.00	\$	180.25		\$ -		\$ -
40T RT Crane	•	5.70		\$	-		\$	-		\$			\$	-		\$ -		\$ -
60T RT Crane	•	7.20		\$	-		\$	-		\$	-		\$	4 - 1		\$ -		\$ -
80T RT Crane		5.05		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Digger - TelElect 5052	•	9.40		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
200T All-Tr. crane Texoma	•	8.72 32.23		\$	-		\$	-		\$	-		\$	-		\$ - \$ -		\$ - \$ -
Quad or Side by Side	· · ·	24.21		\$	-		\$	-		\$			\$			\$ -		\$ -
120' Gene Lift	•	37.55		\$	-		\$	- /		\$			\$			\$ -		\$ -
53' Tridem trailer	•	1.85		\$	-		\$	-		\$		/	\$	- 1		\$ -		\$ -
T/A Gravel Truck	\$ 6	8.13		\$	-		\$	-		\$			\$	-		\$ -		\$ -
T/A Rock Truck		21.67		\$	-		\$	-		\$			\$	-		\$ -		\$ -
Watson 1010	-	0.55		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Watson 1100		7.20		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Watson 2500 Soilmec SR65	•	9.00		\$	- /	_	\$	-		\$			\$	-		\$ -		\$ -
Tractor Trailer/Picker	•	37.75 34.67		\$	<u>-</u> -		\$			\$			\$ \$			\$ - \$ -		\$ - \$ -
Tractor Trailer (Heavy)	•	34.67		\$	_		\$			\$			\$	_		\$ -		\$ -
Self-Loader	•	34.67		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
55' Bucket Truck	\$ 8	31.11		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Pole Trailer		22.04		\$	-		\$	<u> </u>		\$	_		\$	-		\$ -		\$ -
Crawler Tractors 750 JD		5.83		\$	•		\$	_		\$	-		\$	-		\$ -		\$ -
JD 310 Back Hoe		8.13	1.00	\$	-	4.00	\$	-		\$	-		\$	-		\$ -		\$ -
JD 554 Loader JD 290 Track-hoe		9.27 80.6 0	1.00	\$	69.27 130.60	1.00	\$	69.27		\$	-		\$	-		\$ - \$ -		\$ - \$ -
Skid-Steer Loader		88.11	1.00	\$	-		\$	-		\$	-		\$			\$ -		\$ -
Nodwells - Picker up to 17 Ton		0.36		\$	-		\$	-		\$	_		\$	_		\$ -		\$ -
Nodwells - Picker over 17 Ton		28.25		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Nodwell - Digger	\$ 13	0.60		\$	-		\$	-		\$	-		\$	-	-	\$ -		\$ -
Trencher	_	34.36		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
10T Tele-Handler		3.00		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
LGP Texoma Nodwell		2.23		\$			\$	-		\$	-		\$	-		\$ -		\$ -
LGP Highboy ROW Trailer Quad or Side by Side		24.21		\$			\$	-		\$	-		\$	-	1.00	\$ - \$ 24.21		\$ - \$ -
Reel Trailer		72.10		\$	_		\$	-		\$	-		\$		1.00	\$ 24.21		\$ -
Tensioner	_	9.05		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Puller		9.05		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
1 Drum Puller	\$ 7	7.25		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Single Tensioner		7.25		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Single Traveller		0.52		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
JD 350 LDC Excavator		0.89	1.00		160.89		\$	-		\$	-		\$	-		\$ -		\$ -
Crout truck		22.04		\$	-		\$	-	1.00	\$	22.04		\$	-		\$ -		\$ -
Grout truck Rock Drill		32.40		\$	-		\$	-	1.00	\$	82.40		\$	-		\$ - \$ -		\$ - \$ -
Press & Pump, Genset, Light plant		3.46		\$	-		\$	-		\$	-	0.50	\$	6.73		\$ -		\$ -
Water pump		10.99	1.00	\$	40.99		\$	-		\$	-	0.00	\$	-		\$ -		\$ -
Pilot Line Winder		2.70		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Wire Winder	\$ 1	7.69		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Spacer Buggy		6.35		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Travellers (ea)		1.24		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Traffic Control Sign		21.84	1.00	\$	-		\$	-		\$	-		\$	-		\$ -	2.00	\$ 43.67
Hoe-Pack		25.75	1.00	\$	25.75		\$	-		\$	-		\$	-		\$ -		\$ -
Pile Driving Crew (per m) Concrete Pumper		1.07		\$	-		\$	-		\$	-		\$	-		\$ - \$ -		\$ - \$ -
Survey Equipment		6.00 6.65	0.50	\$	28.33		\$	-		\$	-	1.00	\$	- 56.65		\$ -		\$ -
Heavy Lift Helicopter - Operated	\$ 17,72		5.50	\$	-		\$	-		\$	-	1.00	\$	-		\$ -		\$ -
Medium Lift Helicopter - Operated		'1.98		\$	-		\$	-		\$	-		\$	-		\$ -		\$ -
Light Duty Helicopter - Operated		5.50		\$	-		\$	-		\$	-		\$			\$ -		\$ -
TOTAL EQUIPMENT			8.00	_	526.41	2.00		98.47	3.00		133.64	5.50		321.55	2.00	53.41	4.00	92.39
																_ 		_
TOTAL CREW RATE					959.25			194.96	ı	\$	393.78			935.63		\$ 261.75		\$ 252.48



			27	1	20		20	20	24	22
		HL F	27 Helicopter	Camp Sit	28 e Preparation	Su	29 pervisory	30 Sign Crew	31 Flagging Crew	32 Welding Support
		No.	Rate	No.	Rate	No.	Rate	No. Rate	No. Rate	No. Rate
Designation	Rate									
Supervisor	\$ 142.83	2.00	\$ 285.67	4.00	\$ -	1.00	\$ 142.83	\$ -	\$ -	\$ -
Foreman Surveyor	\$ 120.15 \$ 111.85	5.00	\$ 600.73 \$ -	1.00 0.50	\$ 120.15 \$ 55.92		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
Lineman	\$ 111.85	8.00	\$ 894.79	0.50	\$ -		\$ -	\$ -	\$ -	\$ -
Apprentice - 4th Year	\$ 103.90	8.00	\$ 831.18		\$ -		\$ -	\$ -	\$ -	\$ -
Apprentice - 3rd Year	\$ 95.95	8.00	\$ 767.57		\$ -		\$ -	\$ -	\$ -	\$ -
Apprentice - 2nd Year	\$ 87.99		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Apprentice - 1st Year	\$ 80.04		\$ -		\$ -		\$ -	2.00 \$ 160.08		
Equipment Operator Truck Driver / Picker Op.	\$ 96.49 \$ 107.16	1.00	\$ 96.49 \$ 107.16	3.00	\$ 289.48 \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	1.00 \$ 96.49
Labourer	\$ 107.16	1.00	\$ 107.16		\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ - \$ -
3rd Party Density Tester	\$ 243.80		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Carpenter	\$ 100.05		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Telecom Foreman	\$ 87.44		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Telecom Cable Splicer	\$ 87.44		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Included Super or Operator	\$ - \$ -	4.00	\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ -	\$ -
none	\$ -		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
TOTAL LABOUR		37.00	3,583.59	4.50	465.55	1.00	142.83	2.00 160.08	2.00 160.08	2.00 176.53
			,							
Pickup	\$ 24.36	2.00	\$ 48.72	1.00	\$ 24.36	1.00	\$ 24.36	2.00 \$ 48.72		
Crew Cab Truck	\$ 29.20	10.00	\$ 292.01	1.00	\$ 29.20		\$ -	\$ -	\$ -	1.00 \$ 29.20
Conductor Splicing Truck	\$ 46.02		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
OPGW Splicing Truck Picker - 17 Ton	\$ 93.60 \$ 136.27		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ -	\$ <u>-</u>	\$ -
Picker - 38 Ton	\$ 130.27	1.00	\$ 180.25		\$ -		\$ -	\$ -	\$ -	\$ -
40T RT Crane	\$ 195.70		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
60T RT Crane	\$ 247.20		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
80T RT Crane	\$ 345.05		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Digger - TelElect 5052	\$ 89.40		\$ -		\$ -		\$ -	\$ -	\$ -	1.00 \$ 89.40
200T All-Tr. crane Texoma	\$ 418.72 \$ 162.23		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ - \$ -
Quad or Side by Side	\$ 162.23		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
53' Tridem trailer	\$ 11.85		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
T/A Rock Truck	\$ 121.67		\$ -	1.00	\$ 121.67	_	\$ -	\$ -	\$ -	\$ -
Watson 1010 Watson 1100	\$ 190.55 \$ 247.20		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ -	\$ -	\$ - \$ -
Watson 2500	\$ 309.00		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Soilmec SR65	\$ 437.75		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Tractor Trailer/Picker	\$ 134.67		\$ -	-	\$ -		\$ -	\$ -	\$ -	\$ -
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Self-Loader	\$ 134.67		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
55' Bucket Truck Pole Trailer	\$ 81.11 \$ 22.04		\$ - \$ -		\$ -		\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -
Crawler Tractors 750 JD	\$ 165.83		\$ -	1.00	\$ 165.83		\$ -	\$ -	\$ -	\$ -
JD 310 Back Hoe	\$ 68.13		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
JD 554 Loader	\$ 69.27	1.00	\$ 69.27		\$ -		\$ -	\$ -	\$ -	\$ -
JD 290 Track-hoe	\$ 130.60		\$ -	1.00	\$ 130.60		\$ -	\$ -	\$ -	\$ -
Skid-Steer Loader	\$ 38.11		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$ 170.36 \$ 228.25		\$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
Nodwell - Digger	\$ 130.60		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Trencher	\$ 84.36		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
10T Tele-Handler	\$ 53.00	7	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
LGP Texoma Nodwell	\$ 162.23		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
LGP Highboy ROW Trailer	\$ 32.45		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Quad or Side by Side Reel Trailer	\$ 24.21 \$ 72.10		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
Tensioner Tensioner	\$ 72.10 \$ 139.05		\$ -		\$ - \$ -		\$ -	\$ -	\$ -	\$ -
Puller	\$ 139.05		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
1 Drum Puller	\$ 77.25		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Single Tensioner	\$ 77.25		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Single Traveller	\$ 0.52		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
JD 350 LDC Excavator	\$ 160.89 \$ 22.04		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
Compressor Grout truck	\$ 22.04 \$ 82.40		\$ -		\$ - \$ -		\$ -	\$ -	\$ -	\$ -
Rock Drill	\$ 103.00		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Press & Pump, Genset, Light plant			\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Water pump	\$ 40.99		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Pilot Line Winder	\$ 92.70		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Wire Winder Spacer Buggy	\$ 17.69 \$ 46.35		\$ - \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
Travellers (ea)	\$ 46.35 \$ 1.24		\$ - \$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Traffic Control Sign	\$ 21.84		\$ -		\$ -		\$ -	2.00 \$ 43.67		\$ -
Hoe-Pack	\$ 25.75		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$ -		\$ -	\$ -	\$ -	\$ -
Concrete Pumper	\$ 206.00		\$ -		\$ -		\$ -	\$ -	- \$ -	\$ -
Survey Equipment	\$ 56.65	4.00	\$ - \$ 17 725 90	0.50	\$ 28.33		\$ -	\$ -	- \$ -	\$ -
Heavy Lift Helicopter - Operated Medium Lift Helicopter - Operated	\$ 17,725.89 \$ 3,071.98	1.00	\$ 17,725.89 \$ -		\$ - \$ -		\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -
Light Duty Helicopter - Operated	\$ 1,905.50		\$ -	_	\$ -		\$ -	\$ -	\$ -	\$ -
TOTAL EQUIPMENT		15.00	18,316.13	5.50	499.99	1.00	24.36			
			·			-	-			
TOTAL CREW RATE			\$ 21,899.72		\$ 965.54		\$ 167.19	\$ 252.48	\$ 208.80	\$ 295.14



			33		34		35			36			37		38			39	
		Roads	and Reclaim	Heli	Sockinstall	An	chor (Rock		dations	Bir	d Diverter	Pole	e Tag (Crew	Gı	ıy Ins	
		No.	Rate	No.	Rate	No.	F	Rate	No.		Rate	No.	Rate	No.	R	late	No.		Rate
Designation	Rate		•		•					•				4.00		1 10 00			
Supervisor	\$ 142.83 \$ 120.15	1.00	\$ - \$ 120.15		\$ - \$ -	1.00	\$	- 120.15	1.00	\$	120.15	1.00	\$ - \$ 120.15	1.00		142.83 120.15	1.00	\$ \$	120.15
Foreman Surveyor	\$ 120.15 \$ 111.85	1.00	\$ -		\$ -	1.00	\$	-	1.00	\$	111.85	1.00	\$ 120.15	1.00	\$	-	0.50	\$	55.92
Lineman	\$ 111.85		\$ -		\$ -		\$	-	1.00	\$	-		\$ -	1.00		111.85	2.00	_	223.70
Apprentice - 4th Year	\$ 103.90		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	•
Apprentice - 3rd Year	\$ 95.95		\$ -		\$ -	1.00	\$	95.95		\$	-		\$ -		\$	-	2.00	\$	191.89
Apprentice - 2nd Year	\$ 87.99		\$ -		\$ -		\$	-	1.00	\$	87.99	2.00	\$ 175.99	1.00		87.99		\$	-
Apprentice - 1st Year	\$ 80.04	4.00	\$ -		\$ -	4.00	\$	-	4.00	\$	-		\$ -		\$	-	4.00	\$	-
Equipment Operator Truck Driver / Picker Op.	\$ 96.49 \$ 107.16	4.00	\$ 385.97 \$ -		\$ - \$ -	1.00	\$	96.49 107.16	1.00	\$	96.49	2.00	\$ - \$ 214.32		\$	-	1.00	\$ \$	96.49
Labourer	\$ 87.44		\$ -		\$ -	1.00	\$	-		\$	-	2.00	\$ 174.87		\$	-	1.00	\$	-
3rd Party Density Tester	\$ 243.80		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Carpenter	\$ 100.05		\$ -		\$ -		\$	-	1.00	\$	100.05		\$ -		\$	-		\$	-
Telecom Foreman	\$ 87.44		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Telecom Cable Splicer	\$ 87.44		\$ -	-	\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Included Super or Operator none	\$ - \$ -		\$ - \$ -	1.00	\$ - \$ -		\$ \$	-		\$	-		\$ - \$ -		\$	-		\$	-
Hone	Ψ -		Ψ -		Ψ -		Ψ			Ψ			Ψ -		Ψ			Ψ	
TOTAL LABOUR		5.00	506.12	1.00	-	4.00		419.75	5.00		516.53	7.00	685.33	4.00	4	162.82	7.50		795.31
															1				
Pickup	\$ 24.36	1.00	\$ 24.36		\$ -	1.00	\$	-	2.00	\$	48.72	1.00	\$ 24.36	4.00	\$	-	0.50	\$	12.18
Conductor Splicing Truck	\$ 29.20 \$ 46.02	1.00	\$ 29.20 \$ -		\$ - \$ -	1.00	\$	29.20	1.00	\$	29.20	1.00	\$ 29.20	1.00	\$	29.20	2.00	\$	58.40
Conductor Splicing Truck OPGW Splicing Truck	\$ 46.02 \$ 93.60		\$ - \$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Picker - 17 Ton	\$ 93.60		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Picker - 38 Ton	\$ 180.25		\$ -		\$ -		\$	-		\$	-	1.00	\$ 180.25		\$	-	1.00		180.25
40T RT Crane	\$ 195.70		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
60T RT Crane	\$ 247.20		\$ -		\$ -		\$	-		\$			\$ -		\$			\$	-
80T RT Crane	\$ 345.05		\$ -		\$ -		\$			\$			\$ -		\$			\$	-
Digger - TelElect 5052	\$ 89.40		\$ -		\$ -	1.00	\$	89.40	-	\$			\$ -		\$	-		\$	-
200T All-Tr. crane Texoma	\$ 418.72 \$ 162.23		\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ - \$ -		\$ \$	-		\$ \$	-
Quad or Side by Side	\$ 162.23 \$ 24.21		\$ -		\$ - \$ -		\$	-		\$			\$ -		\$	-		\$	-
120' Gene Lift	\$ 87.55		\$ -		\$ -		\$	-		\$			\$ -		\$	-		\$	
53' Tridem trailer	\$ 11.85		\$ -		\$ -		\$	-		\$			\$ -		\$	-		\$	_
T/A Gravel Truck	\$ 68.13		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
T/A Rock Truck	\$ 121.67	1.00	\$ 121.67		\$ -		\$			\$			\$ -		\$	-		\$	-
Watson 1010	\$ 190.55		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Watson 1100	\$ 247.20		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Watson 2500	\$ 309.00		\$ -		\$ -		\$	-		\$	- /		\$ -		\$	-		\$	-
Soilmec SR65 Tractor Trailer/Picker	\$ 437.75 \$ 134.67		\$ - \$ -		\$ - \$ -		\$	-		\$			\$ - \$ -		\$	-		\$ \$	-
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$ -		\$		>	\$			\$ -		\$	-		\$	
Self-Loader	\$ 134.67		\$ -		\$ -		\$			\$	_		\$ -		\$			\$	-
55' Bucket Truck	\$ 81.11		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Pole Trailer	\$ 22.04		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Crawler Tractors 750 JD	\$ 165.83	1.00	\$ 165.83		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
JD 310 Back Hoe	\$ 68.13		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
JD 554 Loader	\$ 69.27 \$ 130.60	1.00	\$ 69.27		\$ - \$ -		\$	-	1.00	\$	120.60		\$ - \$ -		\$ \$	-	1.00	\$ \$	69.27
JD 290 Track-hoe Skid-Steer Loader	\$ 130.60 \$ 38.11	1.00	\$ 130.60 \$ -		\$ -		\$	-	1.00	\$	130.60		\$ -		\$	-		\$	
Nodwells - Picker up to 17 Ton	\$ 170.36		\$ -		\$ -		\$	-		\$			\$ -		\$	-		\$	
Nodwells - Picker over 17 Ton	\$ 228.25		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Nodwell - Digger	\$ 130.60		\$ -		\$ -	-	\$	-		\$	-		\$ -		\$	-		\$	-
Trencher	\$ 84.36		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
10T Tele-Handler	\$ 53.00	/ 🙏	\$ -		\$ -	-	\$	-		\$	-		\$ -		\$	-		\$	-
LGP Texoma Nodwell	\$ 162.23		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
LGP Highboy ROW Trailer Quad or Side by Side	\$ 32.45 \$ 24.21		\$ - \$ -		\$ - \$ -		\$	-		\$	-	2.00	\$ - \$ 48.41	2.00	\$	- 48.41	1.00	\$	24.21
Reel Trailer	\$ 72.10		\$ -		\$ - \$ -		\$	-		\$	-	2.00	\$ 48.41	2.00	\$	- 10.4 l	1.00	\$	۷4.۷ I -
Tensioner	\$ 139.05		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Puller	\$ 139.05		\$ -		\$ -		\$	-		\$	-		\$ -		\$			\$	
1 Drum Puller	\$ 77.25		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-	1.00	\$	77.25
Single Tensioner	\$ 77.25		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Single Traveller	\$ 0.52		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
JD 350 LDC Excavator	\$ 160.89		\$ -		\$ -	1.00		160.89	4.00	\$	-		\$ -		\$	-		\$	-
Compressor Grout truck	\$ 22.04 \$ 82.40		\$ - \$ -		\$ - \$ -		\$ \$	-	1.00	\$	22.04		\$ - \$ -		\$ \$	-		\$ \$	-
Rock Drill	\$ 82.40 \$ 103.00		\$ - \$ -		\$ - \$ -		\$	-	1.00	\$	103.00		\$ - \$ -		\$	-		\$	_
Press & Pump, Genset, Light plant			\$ -		\$ -		\$	-	1.00		13.46		\$ -		\$	-	1.00	\$	13.46
Water pump	\$ 40.99		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Pilot Line Winder	\$ 92.70		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Wire Winder	\$ 17.69		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Spacer Buggy	\$ 46.35		\$ -		\$ -		\$	-		\$	-	2.00	\$ 92.70		\$	-		\$	-
Travellers (ea)	\$ 1.24		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Traffic Control Sign	\$ 21.84		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Hoe-Pack Pile Driving Crew (per m)	\$ 25.75 \$ 211.07		\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ - \$ -		\$	-		\$	-
Concrete Pumper	\$ 211.07		\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ -		\$	-		\$	
Survey Equipment	\$ 56.65		\$ -		\$ -		\$	-	1.00	\$	56.65		\$ -		\$	-	0.50	\$	28.33
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Medium Lift Helicopter - Operated	\$ 3,071.98		\$ -		\$ -		\$	-		\$	-		\$ -		\$	-		\$	-
Light Duty Helicopter - Operated	\$ 1,905.50		\$ -	1.00	\$ 1,905.50		\$	-		\$	-		\$ -		\$	-		\$	-
TOTAL EQUIPMENT		6.00	540.93	1.00	1,905.50	3.00		279.49	8.00		403.67	7.00	374.92	3.00		77.61	8.00		463.34
TOTAL ODEW DATE			64 047 07	į i	¢ 4 005 50 1	Ī	ړ ا	600.04	ļ	م ا	000 00		¢4 000 0=	ĺ	- ما	:40.40	ı	. .	250.05
TOTAL CREW RATE			\$1,047.05		\$ 1,905.50		\$	699.24		\$	920.20		\$1,060.25		 \$ 5	40.43		\$1	,258.65



			40		41			42			43			44		45		46
		Y- To	ower Erection	Tov	ver P	lumb	OP		Splice	Count		e Instal	L/A	Account	Cai	np Setup	Ca	mp Haul
		No.	Rate	No.		Rate	No.		Rate	No.	R	ate	No.	Rate	No.	Rate	No.	Rate
Designation	Rate		_											_				_
Supervisor	\$ 142.83	1.00	\$ -	1.00	\$	100.45		\$	-	1.00	\$	-		\$ -	1.00	\$ 142.83		\$ -
Foreman Surveyor	\$ 120.15 \$ 111.85	1.00	\$ 120.15 \$ -	1.00		120.15 111.85		\$	-	1.00		120.15		\$ - \$ -	1.00 0.50	\$ 120.15 \$ 55.92		\$ - \$ -
Lineman	\$ 111.85	1.00	\$ 111.85	1.00	_ '	111.85		\$	-	1.00	\$	-		\$ -	1.00	\$ 111.85		\$ -
Apprentice - 4th Year	\$ 103.90	1.00	\$ 103.90		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Apprentice - 3rd Year	\$ 95.95	2.00	\$ 191.89	2.00	\$	191.89		\$	-		\$	-		\$ -		\$ -		\$ -
Apprentice - 2nd Year	\$ 87.99	1.00	\$ 87.99	2.00		175.99		\$	-		\$	-		\$ -		\$ -		\$ -
Apprentice - 1st Year	\$ 80.04	1.00	\$ 80.04		\$	-		\$	-	0.00	\$	-		\$ -	0.00	\$ -		\$ -
Equipment Operator Truck Driver / Picker Op.	\$ 96.49 \$ 107.16	1.00	\$ 96.49 \$ 107.16		\$	-		\$ \$	-	2.00	\$ 1 \$	192.99		\$ - \$ -	2.00 1.00	\$ 192.99 \$ 107.16	1.00	\$ - \$ 107.16
Labourer	\$ 87.44	1.00	\$ 107.10		\$	-		\$	-		\$			\$ -	3.00	\$ 262.31	1.00	\$ 107.10
3rd Party Density Tester	\$ 243.80		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Carpenter	\$ 100.05		\$ -		\$			\$	-		\$	-		\$ -	3.00	\$ 300.15		\$ -
Telecom Foreman	\$ 87.44		\$ -		\$	-	1.00	\$	87.44		\$	-		\$ -		\$ -		\$ -
Telecom Cable Splicer	\$ 87.44		\$ -		\$	-	1.00	\$	87.44		\$	-	4.00	\$ -		\$ -		\$ -
Included Super or Operator none	\$ - \$ -		\$ - \$ -		\$	-		\$	-		\$ \$	-	1.00	\$ - \$ -		\$ - \$ -		\$ - \$ -
none	φ -		φ -		Ψ	-		Ψ	-		Ψ			Ψ -		Ψ -		φ -
TOTAL LABOUR		9.00	899.47	7.00		711.72	2.00		174.87	4.00	4	24.98	1.00	-	12.50	1,293.35	1.00	107.16
											•							
Pickup	\$ 24.36	1.00	\$ 24.36	1.00	\$	24.36	-	\$	-	1.00	_	24.36		\$ -	1.00	\$ 24.36		\$ -
Crew Cab Truck	\$ 29.20	2.00	\$ 58.40	2.00	\$	58.40	1.00	\$	29.20	1.00		29.20		\$ -	2.00	\$ 58.40		\$ -
Conductor Splicing Truck OPGW Splicing Truck	\$ 46.02 \$ 93.60		\$ - \$ -		\$	-	1.00	\$	93.60		\$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Picker - 17 Ton	\$ 136.27		\$ -		\$	-	1.00	\$	-		\$	-		\$ -		\$ -		\$ -
Picker - 38 Ton	\$ 180.25		\$ -		\$	-		\$	-		\$	-	/	\$ -		\$ -		\$ -
40T RT Crane	\$ 195.70		\$ -		\$	-		\$	-		\$	-		\$ -	1.00	\$ 195.70		\$ -
60T RT Crane	\$ 247.20		\$ -		\$	-		\$	/		\$			\$ -		\$ -		\$ -
80T RT Crane	\$ 345.05	1.00	\$ 345.05		\$	-		\$	-		\$	÷		\$ -		\$ -		\$ -
Digger - TelElect 5052 200T All-Tr. crane	\$ 89.40 \$ 418.72		\$ - \$ -		\$	-		\$			\$			\$ - \$ -		\$ - \$ -		\$ - \$ -
Texoma	\$ 162.23		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Quad or Side by Side	\$ 24.21		\$ -		\$			\$	-		\$	(-		\$ -		\$ -		\$ -
120' Gene Lift	\$ 87.55		\$ -		\$	- /		\$	-		\$	-		\$ -		\$ -		\$ -
53' Tridem trailer	\$ 11.85		\$ -		\$	-		\$	-		\$	-		\$		\$ -		\$ -
T/A Gravel Truck	\$ 68.13		\$ -		\$	-		\$	- 1		\$	-		\$ -		\$ -		\$ -
T/A Rock Truck Watson 1010	\$ 121.67 \$ 190.55		\$ - \$ -		\$	-		\$	-		\$ \$	4		\$ - \$ -		\$ - \$ -		\$ - \$ -
Watson 1100	\$ 190.55		\$ -		\$	-		\$			\$			\$ -		\$ - \$ -		\$ -
Watson 2500	\$ 309.00		\$ -		\$			\$	-		\$	-		\$ -		\$ -		\$ -
Soilmec SR65	\$ 437.75		\$ -		\$	-A		\$	-		\$			\$ -		\$ -		\$ -
Tractor Trailer/Picker	\$ 134.67		\$ -		\$	-		\$		~	\$	-		\$ -	1.00	\$ 134.67		\$ -
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -	1.00	\$ 134.67
Self-Loader 55' Bucket Truck	\$ 134.67 \$ 81.11		\$ - \$ -		\$	-		\$			\$ \$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Pole Trailer	\$ 22.04		\$ -		\$			\$			\$	_		\$ -		\$ -		\$ -
Crawler Tractors 750 JD	\$ 165.83		\$ -		\$			\$	-		\$	-		\$ -	1.00	\$ 165.83		\$ -
JD 310 Back Hoe	\$ 68.13		\$ -		\$	_		\$	-		\$	-		\$ -		\$ -		\$ -
JD 554 Loader	\$ 69.27	-	\$ -		\$			\$			\$	-		\$ -	1.00	\$ 69.27		\$ -
JD 290 Track-hoe	\$ 130.60	1.00	\$ 130.60		\$	-		\$	-		\$	-		\$ -	1.00	\$ 130.60		\$ -
Skid-Steer Loader	\$ 38.11		\$ -		\$	-		\$ \$	-		\$ \$	-		\$ -		\$ - \$ -		\$ -
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$ 170.36 \$ 228.25		\$ -		\$			\$	-		\$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Nodwell - Digger	\$ 130.60		\$ -		\$	_		\$	-	1.00	-	30.60		\$ -		\$ -		\$ -
Trencher	\$ 84.36	1	\$ -		\$	-		\$	-	1.00		84.36		\$ -		\$ -		\$ -
10T Tele-Handler	\$ 53.00	7	\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
LGP Texoma Nodwell	\$ 162.23		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
LGP Highboy ROW Trailer Quad or Side by Side	\$ 32.45	4.00	\$ -	2.00	\$	40.44		\$	-		\$	-		\$ -		\$ -		\$ -
Reel Trailer	\$ 24.21 \$ 72.10	1.00	\$ 24.21 \$ -	2.00	\$ \$	48.41		\$ \$	-		\$ \$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Tensioner	\$ 139.05	-	\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Puller	\$ 139.05		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
1 Drum Puller	\$ 77.25		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Single Tensioner	\$ 77.25		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Single Traveller	\$ 0.52		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
JD 350 LDC Excavator Compressor	\$ 160.89 \$ 22.04		\$ - \$ -		\$	-		\$ \$	-		\$ \$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Grout truck	\$ 22.04 \$ 82.40		\$ -		\$	_		\$	-		\$	_		\$ -		\$ -		\$ -
Rock Drill	\$ 103.00		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Press & Pump, Genset, Light plant	•		\$ -	1.00	\$	13.46		\$	-		\$	-		\$ -		\$ -		\$ -
Water pump	\$ 40.99		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Pilot Line Winder	\$ 92.70		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Wire Winder Spacer Buggy	\$ 17.69 \$ 46.35		\$ - \$ -		\$	-		\$ \$	-		\$ \$	-		\$ - \$ -		\$ - \$ -		\$ - \$ -
Travellers (ea)	\$ 46.35 \$ 1.24		\$ -		\$	_		\$	-		\$	_		\$ -		\$ -		\$ -
Traffic Control Sign	\$ 21.84		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Hoe-Pack	\$ 25.75		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Pile Driving Crew (per m)	\$ 211.07		\$ -		\$	-		\$	-		\$	-		\$ -		\$ -		\$ -
Concrete Pumper	\$ 206.00		\$ -	4.00	\$	-		\$	-	4.00	\$	-		\$ -	0.50	\$ -		\$ -
Survey Equipment Heavy Lift Helicopter - Operated	\$ 56.65 \$ 17,725.89		\$ - \$ -	1.00	\$ \$	56.65		\$ \$	-	1.00	\$	56.65		\$ - \$ -	0.50	\$ 28.33 \$ -		\$ - \$ -
Medium Lift Helicopter - Operated			\$ - \$ -		\$	-		\$	-		\$	-		\$ - \$ -		\$ -		\$ -
Light Duty Helicopter - Operated	\$ 1,905.50		\$ -		\$	_		\$	_		\$	-		\$ -		\$ -		\$ -
TOTAL EQUIPMENT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.00	582.62	7.00		201.28	2.00		122.80	5.00		325.17	-	-	8.50	807.16	1.00	134.67
TOTAL CREW RATE			\$ 1,482.09		\$	913.00		\$	297.67		\$ 7	750.15		\$ -		\$ 2,100.51		\$ 241.83



			47		48			49		50		I	99	
		G	eotech	Wood		sembly	Woo	d Erection	Slack				99	
		No.	Rate	No.		Rate	No.	Rate	No.	0	Rate	No.		Rate
Designation	Rate													
Supervisor	\$ 142.83	1.00	\$ 142.83		\$	-		\$ -		\$			\$	-
Foreman	\$ 120.15		\$ -	1.00	\$	120.15	1.00	\$ 120.15	1.00	\$			\$	-
Surveyor	\$ 111.85		\$ -	4.00	\$	- 444.05	4.00	\$ -	2.00	\$			\$	-
Lineman Apprentice - 4th Year	\$ 111.85 \$ 103.90		\$ - \$ -	1.00	\$	111.85	1.00	\$ 111.85 \$ 103.90	3.00 2.00	\$			\$	-
Apprentice - 3rd Year	\$ 95.95		\$ -	1.00	\$	95.95	1.00	\$ -	2.00	\$			\$	
Apprentice - 2nd Year	\$ 87.99		\$ -		\$	-		\$ -	2.00	\$			\$	-
Apprentice - 1st Year	\$ 80.04		\$ -		\$	-		\$ -		\$	-		\$	-
Equipment Operator	\$ 96.49	1.00	\$ 96.49	1.00	\$	96.49	1.00	\$ 96.49	2.00	\$	192.99		\$	-
Truck Driver / Picker Op.	\$ 107.16	0.25	\$ 26.79	1.00	\$	107.16	2.00	\$ 214.32	2.00	\$			\$	-
Labourer	\$ 87.44	1.00	\$ 87.44		\$	-		\$ -		\$			\$	-
3rd Party Density Tester Carpenter	\$ 243.80 \$ 100.05		\$ - \$ -		\$ \$	<u> </u>		\$ - \$ -		\$			\$	<u>-</u>
Telecom Foreman	\$ 87.44		\$ -		\$			\$ -		\$			\$	
Telecom Cable Splicer	\$ 87.44		\$ -		\$	-		\$ -		\$			\$	-
Included Super or Operator	\$ -		\$ -		\$	-		\$ -		\$	-		\$	-
none	\$ -		\$ -		\$	-		\$ -		\$	-		\$	-
					r -								1	
TOTAL LABOUR		3.25	353.55	5.00		531.60	6.00	646.71	14.00		1,438.68	-		-
Pickup	\$ 24.36	1.00	\$ 24.36		\$			\$ -	1.00	\$	24.36		\$	
Crew Cab Truck	\$ 24.30	1.00	\$ 29.20	1.00	\$	29.20	2.00	\$ 58.40	3.00	\$			\$	
Conductor Splicing Truck	\$ 46.02		\$ -		\$	-	.,,,	\$ -	2,00	\$			\$	-
OPGW Splicing Truck	\$ 93.60		\$ -		\$	-		\$ -		\$			\$	-
Picker - 17 Ton	\$ 136.27		\$ -	1.00	\$	136.27		\$ -		\$			\$	
Picker - 38 Ton	\$ 180.25		\$ -		\$	-		\$ -	2.00	\$			\$	
40T RT Crane	\$ 195.70		\$ -		\$	-	1.00	\$ 195.70		\$			\$	-
60T RT Crane 80T RT Crane	\$ 247.20 \$ 345.05		\$ -		\$	-		\$ -		\$			\$	
Digger - TelElect 5052	\$ 345.05 \$ 89.40		\$ - \$ -		\$ \$	-	_	\$ - \$ -	_	\$			\$	
200T All-Tr. crane	\$ 418.72		\$ -		\$	-		\$ -		\$	$\overline{}$		\$	
Texoma	\$ 162.23		\$ -		\$	-		\$ -		\$			\$	-
Quad or Side by Side	\$ 24.21		\$ -		\$	-		\$ -		\$	-		\$	
120' Gene Lift	\$ 87.55		\$ -		\$	<u>-</u> _		\$ -		\$			\$	
53' Tridem trailer	\$ 11.85		\$ -		\$			\$ -		\$			\$	-
T/A Gravel Truck	\$ 68.13		\$ -		\$	-	1.00	\$ 68.13		\$			\$	-
T/A Rock Truck Watson 1010	\$ 121.67 \$ 190.55		\$ - \$ -		\$ \$			\$ - \$ -		\$			\$	-
Watson 1100	\$ 247.20		\$ -		\$		_	\$ -		\$			\$	
Watson 2500	\$ 309.00		\$ -		\$			\$ -		\$			\$	-
Soilmec SR65	\$ 437.75		\$ -		\$			\$ -		\$	<u> - </u>		\$	-
Tractor Trailer/Picker	\$ 134.67	0.25	\$ 33.67		\$			\$ -	<u> </u>	\$			\$	-
Tractor Trailer (Heavy)	\$ 134.67		\$ -		\$			\$ -		\$			\$	-
Self-Loader 55' Bucket Truck	\$ 134.67 \$ 81.11		\$ -		\$ \$	-		\$ - \$ -		\$			\$	-
Pole Trailer	\$ 22.04		\$ -		\$			\$ -		\$			\$	<u>-</u>
Crawler Tractors 750 JD	\$ 165.83		\$ -		\$	-		\$ -		\$			\$	-
JD 310 Back Hoe	\$ 68.13		\$ -		\$	-		\$ -	1.00	\$	68.13		\$	-
JD 554 Loader	\$ 69.27		\$ -		\$			\$ -		\$			\$	-
JD 290 Track-hoe	\$ 130.60	1.00	\$ 130.60		\$		1.00	\$ 130.60	1.00	\$			\$	-
Skid-Steer Loader	\$ 38.11		\$ -		\$	-		\$ -		\$			\$	-
Nodwells - Picker up to 17 Ton Nodwells - Picker over 17 Ton	\$ 170.36 \$ 228.25		\$ - \$ -		\$ \$	-		\$ - \$ -		\$			\$	<u> </u>
Nodwell - Digger	\$ 130.60		\$ -		\$			\$ -		\$			\$	
Trencher	\$ 84.36	1	\$ -		\$	-		\$ -		\$			\$	-
10T Tele-Handler	\$ 53.00	7	\$ -		\$	-		\$ -		\$			\$	-
LGP Texoma Nodwell	\$ 162.23		\$ -		\$	-		\$ -		\$			\$	-
LGP Highboy ROW Trailer	\$ 32.45		\$ -		\$	-		\$ -		\$			\$	-
Quad or Side by Side	\$ 24.21		\$ -		\$	-		\$ -	4.00	\$			\$	-
Reel Trailer Tensioner	\$ 72.10 \$ 139.05		\$ - \$ -		\$ \$	<u> </u>		\$ - \$ -	1.00	\$			\$	<u> </u>
Puller	\$ 139.05		\$ -		\$	-		\$ -		\$			\$	
1 Drum Puller	\$ 77.25		\$ -		\$	-		\$ -	-	\$			\$	-
Single Tensioner	\$ 77.25		\$ -		\$	-		\$ -		\$	-		\$	-
Single Traveller	\$ 0.52		\$ -		\$	-		\$ -	-	\$			\$	-
JD 350 LDC Excavator	\$ 160.89		\$ -		\$	-		\$ -		\$			\$	-
Crout truck	\$ 22.04		\$ -		\$	-		\$ -		\$			\$	-
Grout truck Rock Drill	\$ 82.40 \$ 103.00		\$ - \$ -		\$ \$	-	1.00	\$ - \$ 103.00		\$			\$	-
Press & Pump, Genset, Light plant			\$ -	1.00	\$	13.46	1.00	\$ 103.00	1.00	\$			\$	-
Water pump	\$ 40.99		\$ -		\$	-		\$ -		\$			\$	-
Pilot Line Winder	\$ 92.70		\$ -		\$	-		\$ -		\$			\$	-
Wire Winder	\$ 17.69		\$ -		\$	-		\$ -		\$			\$	-
Spacer Buggy	\$ 46.35		\$ -		\$	-		\$ -	007	\$			\$	-
Travellers (ea)	\$ 1.24		\$ -		\$	-		\$ -	200.00	\$			\$	-
Traffic Control Sign Hoe-Pack	\$ 21.84 \$ 25.75		\$ - \$ -		\$ \$	-		\$ - \$ -		\$			\$	-
Pile Driving Crew (per m)	\$ 25.75 \$ 211.07		\$ - \$ -		\$	-		\$ - \$ -		\$			\$	-
Concrete Pumper	\$ 206.00		\$ -		\$	-		\$ -		\$			\$	-
Survey Equipment	\$ 56.65		\$ -		\$	-		\$ -		\$			\$	-
Heavy Lift Helicopter - Operated	\$ 17,725.89		\$ -		\$	-		\$ -		\$			\$	-
Medium Lift Helicopter - Operated			\$ -		\$	-		\$ -		\$			\$	-
Light Duty Helicopter - Operated	\$ 1,905.50	2 OF	\$ - 217.83	2.00	\$	- 178 03	7.00	\$ - 560.30	210.00	\$			\$	<u>-</u>
TOTAL EQUIPMENT		3.25	217.83	3.00		178.93	7.00	569.30	210.00		1,003.96	-	<u> </u>	-
TOTAL CREW RATE		I	\$ 571.38		\$	710.52		\$1,216.00		\$:	2,442.63	İ	\$	-
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CIMFP Exhibit P-01886

Based On 11.0 Hours per Day
7.0 Days per Week
77.0 Hour Week

Wat app	d

								77.0	Hour Week			Daily Liv	ing Allowance	\$ -	Assumes 0% no	LA					
												-	LA For	7	days / week			ST &	OT Rates		
В	Blende	d Hourly	Unloade	ed Hourly Ra	ate		Loaded Hourly Rate	Ho	ours Per Wee	ek	Wag	e Cost		Weekly Living	Weekly Cost	Blended Co	ost Per Hour	c/w Sı	stenance		
	R	ate	ST	<u>OT</u>	DT	Multiplier	ST OT DT	ST	OT	DT ST	OT	DT	<u>Total</u>	Cost	Total	Hours	Cost		<u>ST</u>	<u> </u>	<u>DT</u>
Personnel Rates																					
Supervisor	\$	142.83	109.19	163.13	217.18	1.00 \$	109.19 \$ 163.13 \$ 217.18	3 40.0	26.0	11.0 \$ 4,367.66	\$ 4,241.44	\$ 2,389.00	\$ 10,998.11	\$ -	\$ 10,998.11	77.0 \$	142.83	Supervisor	\$ 109.19	\$ 163.13	\$ 217.18
Senior Foreman	\$	131.69	100.67	150.40	200.23	1.00 \$	100.67 \$ 150.40 \$ 200.23	3 40.0	26.0	11.0 \$ 4,026.80	\$ 3,910.42	\$ 2,202.56	\$ 10,139.77	\$ -	\$ 10,139.77	77.0 \$	131.69	Senior Foreman	\$ 100.67	\$ 150.40	\$ 200.23
Foreman	\$	120.15	99.28	132.75	166.23	1.00 \$	99.28 \$ 132.75 \$ 166.23	3 40.0	26.0	11.0 \$ 3,971.20	\$ 3,451.60	\$ 1,828.51	\$ 9,251.31	\$ -	\$ 9,251.31	77.0 \$	120.15	Foreman	\$ 99.28	\$ 132.75	\$ 166.23
Sub-Foreman \$	\$	117.18	97.02	129.36	161.71	1.00 \$	97.02 \$ 129.36 \$ 161.7	1 40.0	26.0	11.0 \$ 3,880.83	\$ 3,363.49	\$ 1,778.80	\$ 9,023.12	\$ -	\$ 9,023.12	77.0 \$	117.18	Sub-Foreman	\$ 97.02	\$ 129.36	\$ 161.71
Surveyor	\$	111.85	92.95	123.26	153.58	1.00 \$	92.95 \$ 123.26 \$ 153.58	3 40.0	26.0	11.0 \$ 3,718.16	\$ 3,204.88	\$ 1,689.33	\$ 8,612.37	\$ -	\$ 8,612.37	77.0 \$	111.85	Surveyor	\$ 92.95	\$ 123.26	\$ 153.58
Lineman	\$	111.85	92.95	123.26	153.58	1.00 \$	92.95 \$ 123.26 \$ 153.58	3 40.0	26.0	11.0 \$ 3,718.16	\$ 3,204.88	\$ 1,689.33	\$ 8,612.37	\$ -	\$ 8,612.37	77.0 \$	111.85	Lineman	\$ 92.95	\$ 123.26	\$ 153.58
Apprentice - 4th Year	\$	103.90	86.89	114.17	141.45	1.00 \$	86.89 \$ 114.17 \$ 141.49	5 40.0	26.0	11.0 \$ 3,475.67	\$ 2,968.46	\$ 1,555.96	\$ 8,000.09	\$ -	\$ 8,000.09	77.0 \$	103.90	Apprentice - 4th Year	\$ 86.89	\$ 114.17	\$ 141.45
Apprentice - 3rd Year	\$	95.95	80.83	105.08	129.33	1.00 \$	80.83 \$ 105.08 \$ 129.3	3 40.0	26.0	11.0 \$ 3,233.18	\$ 2,732.04	\$ 1,422.60	\$ 7,387.81	\$ -	\$ 7,387.81	77.0 \$		Apprentice - 3rd Year	\$ 80.83	\$ 105.08	\$ 129.33
Apprentice - 2nd Year	\$	87.99	74.77	95.99	117.20	1.00 \$	74.77 \$ 95.99 \$ 117.20	40.0	26.0	11.0 \$ 2,990.70	\$ 2,495.61	\$ 1,289.23	\$ 6,775.54	\$ -	\$ 6,775.54	77.0 \$	87.99	Apprentice - 2nd Year	\$ 74.77	\$ 95.99	\$ 117.20
Apprentice - 1st Year	\$	80.04	68.71	86.89	105.08	1.00 \$	68.71 \$ 86.89 \$ 105.08	3 40.0	26.0	11.0 \$ 2,748.21	\$ 2,259.19	\$ 1,155.86	\$ 6,163.26	\$ -	\$ 6,163.26			Apprentice - 1st Year	\$ 68.71	\$ 86.89	\$ 105.08
Equipment Operator	\$	96.49	78.91	107.12	135.32	1.00 \$	78.91 \$ 107.12 \$ 135.33	2 40.0	26.0	11.0 \$ 3,156.41	\$ 2,785.00	\$ 1,488.53	\$ 7,429.93	\$ -	\$ 7,429.93	7 7.0 \$	96.49	Equipment Operator	\$ 78.91	\$ 107.12	\$ 135.32
Truck Driver / Picker Op.	\$	107.16	87.04	119.32	151.59	1.00 \$	87.04 \$ 119.32 \$ 151.59	9 40.0	26.0	11.0 \$ 3,481.75	\$ 3,102.21	\$ 1,667.46	\$ 8,251.42	\$ -	\$ 8,251.42	77.0 \$	107.16	Truck Driver / Picker Op	\$ 87.04	\$ 119.32	\$ 151.59
Labourer	\$	87.44	72.01	96.76	121.51	1.00 \$	72.01 \$ 96.76 \$ 121.5	1 40.0	26.0	11.0 \$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,73 2.58	77.0 \$	87.44	Labourer	\$ 72.01	\$ 96.76	\$ 121.51
Carpenter	\$	100.05	81.62	111.18	140.74	1.00 \$	81.62 \$ 111.18 \$ 140.74	40.0	26.0	11.0 \$ 3,264.85	\$ 2,890.74	\$ 1,548.17	\$ 7,703.76	\$ -	7,7 03.76	77.0 \$	100.05	Carpenter	\$ 81.62	\$ 111.18	\$ 140.74
Telecom Foreman	\$	87.44	72.01	96.76	121.51	1.00 \$	72.01 \$ 96.76 \$ 121.5	1 40.0	26.0	11.0 \$ 2,880.23				\$ -	\$ 6,7 32.58	77.0 \$		Telecom Foreman	\$ 72.01	\$ 96.76	\$ 121.51
Telecom Cable Splicer	\$	87.44	72.01	96.76	121.51	1.00 \$	72.01 \$ 96.76 \$ 121.5	1 40.0	26.0	11.0 \$ 2,880.23	\$ 2,515.73	\$ 1,336.63	\$ 6,732.58	\$ -	\$ 6,732 .58	77.0 \$	87.44	Telecom Cable Splicer	\$ 72.01	\$ 96.76	\$ 121.51

General Highway Equi	pmen	
Pickup	\$	24.36
Crew Cab Truck	\$	29.20
Conductor Splicing Truck	\$	46.02
OPGW Splicing Truck	\$	93.60
Picker - 17 Ton	\$	136.27
Picker - 38 Ton	\$	180.25
40T RT Crane	\$	195.70
60T RT Crane	\$	247.20
80T RT Crane	\$	345.05
Digger - TelElect 5052	\$	89.40
T/A Gravel Truck	\$	68.13
T/A Rock Truck	\$	121.67
Texoma	\$	162.23
Watson 1010	\$	190.55
Watson 1100	\$	247.20
Watson 2500	\$	309.00
Soilmec SR65	\$	437.75
Tractor Trailer/Picker	\$	134.67
Tractor Trailer (Heavy)	\$	134.67
Self-Loader	\$	134.67
55' Bucket Truck	\$	81.11
Pole Trailer	\$	22.04
Rock Drill	\$	103.00
Contract Construction Ed	quipm	ent
200T All-Tr. crane	\$	418.72
Contract Welder	\$	144.20
Quad or Side by Side	\$	24.21
120' Gene Lift	\$	87.55
53' Tridem trailer	\$	11.85
Heavy Construction Equ	ıipme	
Crawler Tractors 750 JD	\$	165.83
JD 310 Back Hoe	\$	68.13
JD 554 Loader	\$	69.27
JD 290 Track-hoe	\$	130.60
Skid-Steer Loader	\$	38.11
LGP Construction Equ		nt
Nodwells - Picker up to 17 Ton	\$	170.36
Nodwells - Picker over 17 Ton	\$	228.25
Nodwell - Digger	\$	130.60
Trencher	\$	84.36
10T Tele-Handler	\$	53.00
LGP Texoma Nodwell	\$	162.23
LGP Highboy ROW Trailer	\$	32.45
Stringing Equipme		
Reel Trailer	\$	72.10
Tensioner	\$	139.05
Puller	\$	139.05
1 Drum Puller	\$	77.25
Single Tensioner	\$	77.25
Single Traveller	\$	0.52
JD 350 LDC Excavator	\$	160.89
Compressor	\$	22.04
	\$	82.40
Grout Truck		13.46
Press & Pump, Genset, Light pla		40.99
Press & Pump, Genset, Light pla Press & Pump	\$	40.00
Press & Pump, Genset, Light pla Press & Pump Water Pump	\$	40.99
Press & Pump, Genset, Light pla Press & Pump Water Pump Pilot Line Winder	\$ \$	92.70
Press & Pump, Genset, Light pla Press & Pump Water Pump Pilot Line Winder Wire Winder	\$ \$ \$	92.70 17.69
Press & Pump, Genset, Light pla Press & Pump Water Pump Pilot Line Winder	\$ \$	92.70





	Description	QTY	Unit Price	Cost per item	Quantity Total
V::A01	S1-A1 Initial Mobilization		Unit Cost:	\$ -	1 \$ -
	S1-A1 Initial Mobilization		\$ -	-	1
			\$ - \$ -	\$ - \$ -]
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure			-	
V::A02	S1-A2 Final Demobilization S1-A2 Final Demobilization		Unit Cost:	\$ -	1 \$ -
	S1-A2 Final Demodilization		\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::A03	S1-A3 Accommodation Camp Installation S1-A3 Accommodation Camp Installation		Unit Cost:	\$ 45,687,843.87	1 \$ 45,687,843.87
	Screened Crushed Rock (Tonne) Camp incidental Material	12000	\$ 47.38 \$ 143,750.00	\$ 568,5 6 0.00 \$ 575,000.00	
	Contractor Fuel(I)	105000	\$ 1.33	\$ 140,070.00	
	Camp Hauling with pilot car Room and Board (day)	6080 172294		\$ 1,328,480.00 \$ 43,075,733.87	
	Total material Cost per Structure		\$ -	\$ - \$ 45,687,843.87	
V::A04	S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day		Unit Cost:	\$ 250.01	24000 \$ 6,000,309.00
	S1-A4 Boarding and Lodging for Company/Engineer with 3 meals per day Room and Board (day)	1	71 \$ 250.01	\$ 250.01	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		<u> </u>	\$ 250.01	
V::A05	S1-A5 Meals for Company/Engineer visitors S1-A5 Meals for Company/Engineer visitors		Unit Cost:	\$ 41.68	2000 \$ 83,354.29
	Room and Board (day)	0.1667	\$ 250.01	\$ 41.68	1
			\$ - \$ -	\$ - \$ -	-
			\$ - \$ -	\$ -]
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 41.68	
V::A06	S1-A6 Parent Guarantee Article 7.4 S1-A6 Parent Guarantee Article 7.4		Unit Cost: 124	-	1 \$ -
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	1
			\$ - \$ -	\$ - \$ -	<u> </u>
	Total material Cost per Structure		\$ -	\$ - \$ -	-
V::A07			Unit Cost:		
V::AU7	S1-A7 Letter Of Credit Article 7.6 S1-A7 Letter Of Credit Article 7.6		134		1 \$ -
			\$ - \$ -	\$ - \$ -	-
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	-
V::A08	S1-A8 Performance Bonding Article 7.1 S1-A8 Performance Bonding Article 7.1		Unit Cost:	\$ -	1 \$ -
			\$ -	\$ -	1
			\$ - \$ -	\$ - \$ -	<u> </u>
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			-	

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Description	QTY	Unit Price	Cost per item	Quantity Total
/::A09 S1-A9 Labour and Materials Bonding Article 7.2		Unit Cost:	\$ -	1 \$ -
S1-A9 Labour and Materials Bonding Article 7.2		158		
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	
		\$ -	\$ - \$ -	
		\$ -	\$ -	
		\$ -	\$ -	
Total material Cost per Structure			\$ -	
/::B01 S1-B1 ROW Clearing		Unit Cost:	\$ 19,550.00	2737 \$ 53,508,350.00
S1-B1 ROW Clearing		174		2707 \$ 00,000,000.00
ROW Clearing	1.00	\$ 19,550.00	\$ 19,550.00	
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	
		\$ -	\$ -	-
		\$ -	\$ -	
Total material Cost per Structure			\$ 19,550.00	
/::B02 S1-B2 Removal of selected danger trees		Unit Cost:	\$ 210.00	1000 € 240,000,00
/::B02 S1-B2 Removal of selected danger trees S1-B2 Removal of selected danger trees		Unit Cost:		1000 \$ 210,000.00
Removal of selected danger trees	1.00			
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ - \$ -	-
		\$ -	\$ -	
Total material Cost per Structure		<u> </u>	\$ 210.00	
/::B03 S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick		Unit Cost:	\$ 426.01	14 <mark>55</mark> \$ 619,838.73
S1-B3 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	1.00	202 \$ 426.01		
		\$ -	\$ -	
		\$ -	\$ -	
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	-
		Ψ	Ψ	_
Total material Cost per Structure			\$ 426.01	
7::B04 S1-B4 Supply and Installation of Bridge - 3 m		Unit Cost:	\$ 32,700.00	219 \$ 7,161,300.00
7::B04 S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	1.00	216	\$ 32,700.00	
7::B04 S1-B4 Supply and Installation of Bridge - 3 m	1.00	216	\$ 32,700.00 \$ 32,700.00 \$ -	
7::B04 S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	1.00	\$ 32,700.00 \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ -	
7::B04 S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	1.00	\$ 32,700.00 \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ -	
7::B04 S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	1.00	216 \$ 32,700.00 \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ -	
7::B04 S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m	1.00	\$ 32,700.00 \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ -	
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure	1.00	216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure S1-B5 Supply and Installation of Bridge - 4 m	1.00	216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ -	
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - 231	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00	2 \$ 87,200.00
S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure S1-B5 Supply and Installation of Bridge - 4 m		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 231	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ###################################		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - Unit Cost: 231 \$ 43,600.00 \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ###################################		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ###################################		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ###################################		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ -	2 \$ 87,200.00
S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ 43,600.00	2 \$ 87,200.00
S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure Total material Cost per Structure		216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 275	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ 32,700.00	2 \$ 87,200.00
S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure Total material Cost per Structure		216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ 5 - \$ 32,700.00 \$ 43,600.00 \$ 5 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - Unit Cost: 231 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure S1:B05 S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure Total material Cost per Structure S1-B6 Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Supply and Installation of Bridge - 5 m Total material Cost per Structure	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ 54,500.00	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure #### Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ 5 - \$ 54,500.00 \$ 54,500.00	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure #### S1-B5 Supply and Installation of Bridge - 4 m S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure ###################################	1.00	216 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ 5 - \$ 54,500.00 \$ 54,500.00	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure #### Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ \$ \$ \$ \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ \$ \$ \$ \$ \$ \$ \$	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure #### Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ \$ \$ \$ \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ \$ \$ \$ \$ \$ \$ 5 \$ \$	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure #### Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 54,500.00 \$ 54,500.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ 87,200.00
### S1-B4 Supply and Installation of Bridge - 3 m S1-B4 Supply and Installation of Bridge - 3 m Supply and Installation of Bridge - 3 m Total material Cost per Structure ### S1-B5 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m Total material Cost per Structure #### Total material Cost per Structure ###################################	1.00	216 \$ 32,700,00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 32,700.00 \$ 32,700.00 \$ \$ \$ \$ \$ 32,700.00 \$ 43,600.00 \$ 43,600.00 \$ 43,600.00 \$ \$ \$ \$ \$ \$ \$ 5 \$ \$	2 \$ 87,200.0



	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::B08	S1-B8 Supply and Installation of Bridge - 7 m		Unit Cost:	\$ 76,300.00	15 \$	1,144,500.00
	S1-B8 Supply and Installation of Bridge - 7 m Supply and Installation of Bridge - 7 m	1.00	309 \$ 76,300.00	\$ 76,300.00		
	Supply and installation of Bridge - 7 m	1.00	\$ 70,300.00	\$ 70,300.00		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 76,300.00		
V::B09	S1-B9 Supply and Installation of Bridge - 8 m S1-B9 Supply and Installation of Bridge - 8 m		Unit Cost:	\$ 87,200.00	0 \$	-
	Supply and Installation of Bridge - 8 m	1.00				
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 87,200.00	-	
V::B10	S1-B10 Supply and Installation of Bridge - 10 m		Unit Cost:	\$ 109,000.00		1,090,000.00
	S1-B10 Supply and Installation of Bridge - 10 m		343			
	Supply and Installation of Bridge - 10 m	1.00	\$ 109,000.00 \$ -	\$ 109,000.00 \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -	-	
	Total material Cost per Structure		<u> </u>	\$ 109,000.00		
V::B11	S1-B11 Supply and Installation of Bridge - 13 m		Unit Cost:	\$ 141,700.00	1 \$	141,700.00
VD.11	S1-B11 Supply and Installation of Bridge - 13 m		360	Ψ 141,700.00		141,700.00
	Supply and Installation of Bridge - 13 m	1.00		\$ 141,700.00		
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -		
			\$ -	\$ - \$ -	_	
	Total material Cost per Structure		Ψ	\$ 141,700.00		
V::B12	S1-B12 Supply and Installation of Bridge - 14 m		Unit Cost:	\$ 152,600.00	0 \$	-
	S1-B12 Supply and Installation of Bridge - 14 m Supply and Installation of Bridge - 14 m	1.00	\$ 152,600.00	\$ 152,600.00		
	eappry and modulation of bridge 11 m	1.00	\$ -	\$ -		
			\$ - \$ -	\$ -		
			\$ -	\$ -		
	Total material Contract Charters		\$ -	\$ - \$ 152.600.00		
V::B13	Total material Cost per Structure S1-B13 Supply and Installation of Bridge - 15 m		Unit Cost:	\$ 152,600.00 \$ 163,500.00		
VD13	S1-B13 Supply and Installation of Bridge - 15 m		394			-
	Supply and Installation of Bridge - 15 m	1.00	\$ 163,500.00 \$ -	\$ 163,500.00 \$ -		
			\$ -	\$ -		
			\$ -	-		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure			\$ 163,500.00		
V::B14	S1-B14 Supply and Installation of Bridge - 16 m		Unit Cost:	\$ 174,400.00	0 \$	-
	S1-B14 Supply and Installation of Bridge - 16 m Supply and Installation of Bridge - 16 m	1.00	\$ 174,400.00	\$ 174,400.00		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 174,400.00		
V::B15	S1-B15 Supply and Installation of Bridge - 25 m	1	Unit Cost:	\$ 272,500.00		-
	S1-B15 Supply and Installation of Bridge - 25 m		425			
	Supply and Installation of Bridge - 25 m	1.00	\$ 272,500.00 \$ -	\$ 272,500.00 \$ -	_	
			\$ -	\$ -		
			\$ -	\$ - \$ -	4	
			\$ - \$ -	\$ -	=	
	Total material Cost per Structure			\$ 272,500.00		



	Description	QTY	Unit Price	Cost per item	Quantity Total	
V::B16	S1-B16 Supply and Installation of Bridge - 35 m		Unit Cost:	\$ 381,500.00	1 \$	381,500.00
	S1-B16 Supply and Installation of Bridge - 35 m Supply and Installation of Bridge - 35 m	1.00	439 \$ 381,500.00		-1	
	Supply and installation of bridge - 33 III	1.00	\$ -	\$ 301,300.00	1	
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -		
	Total material Cost per Structure			\$ 381,500.00	L	
V::B17	S1-B17 Supply and Installation of Bridge - 50 m S1-B17 Supply and Installation of Bridge - 50 m		Unit Cost:	\$ 545,000.00	0 \$	•
	Supply and Installation of Bridge - 50 m	1.00		\$ 545,000.00		
			\$ -	-		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 545,000.00	-	
	Total material cost per structure			\$ 343,000.00		
V::B18	S1-B18 Supply and Installation of Bridge - 60 m		Unit Cost:	\$ 654,000.00	0 \$	- /
	S1-B18 Supply and Installation of Bridge - 60 m Supply and Installation of Bridge - 60 m	1.00	\$ 654,000.00	\$ 654,000.00		
	eappry and modulation of Bridge 50 m	1100	\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ - \$ -		
	Total material Cost per Structure			\$ 654,000.00		
V::B19	S1-B19 Supply and Installation of Bridge - 65 m		Unit Cost:	\$ 708,500.00	0 \$	-
	S1-B19 Supply and Installation of Bridge - 65 m		482			
	Supply and Installation of Bridge - 65 m	1.00	\$ 708,500.00	\$ 708,500.00 \$ -	-	
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ - \$ -	1	
			\$ -	\$ -		
			\$ - \$ -	\$ -	4	
	Total material Cost per Structure		5	\$ - \$ 708,500.00		
V::B20	S1-B20 Installation of Corduroy Road		Unit Cost:	\$ 139.45	8233 \$	1,148,083.62
	S1-B20 Installation of Corduroy Road Installation of Corduroy Road	1.00	497 \$ 139.45	\$ 139.45		
		1	\$ -	\$ -		
			\$ -	\$ - \$ -	-	
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 139.45		
V::B21	S1-B21 Installation of Access Road - Access Class 3 S1-B21 Installation of Access Road - Access Class 3		Unit Cost: 511	\$ 80,700.00	402 \$	32,441,400.00
	Installation of Access Road - Access Class 3	1.00	\$ 80,700.00			
			\$ - \$ -	\$ - \$ -	4	
			\$ -	\$ -		
			\$ - \$ -	\$ -	_	
	Total material Cost per Structure		\$ -	\$ - \$ 80,700.00	1	
		•				
V::B22	S1-B22 Installation of Access Road - Access Trail		Unit Cost: 525	\$ 80,700.00	41 \$	3,308,700.00
	S1-B22 Installation of Access Road - Access Trail Installation of Access Road - Access Trail	1.00				
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -		
	Total material Continue Chrysters		\$ -	\$ -	-	
	Total material Cost per Structure	i	1	\$ 80,700.00	1	

Project Estimate - Valard Construction Ltd.



	Description	QTY	Unit Price	Cost per item	Quantity Total	
	·	14				
V::B23	S1-B23 Installation of Access Road - Bypass Trail S1-B23 Installation of Access Road - Bypass Trail		Unit Cost: 594	\$ 80,700.00	35 \$	2,824,500.00
	Installation of Access Road - Bypass Trail	1.00	\$ 80,700.00	\$ 80,700.00		
			\$ - \$ -	\$ - \$ -	_	
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure		-	\$ 80,700.00		
		•				
V::B24	S1-B24 Installation of Access Road - Ice Bridge S1-B24 Installation of Access Road - Ice Bridge		Unit Cost: 607	\$ 7,200.00	57 \$	410,400.00
	Installation of Access Road - Ice Bridge	1.00		\$ 7,200.00		
			\$ - \$ -			
			\$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 7,200.00		
	Total material Cost per Structure			1,200.00		
V::B25	S1-B25 ROW Clearing		Unit Cost:	\$ 19,550.00	0 \$	-
	S1-B25 ROW Clearing ROW Clearing	1.00	\$ 19,550.00	\$ 19,550.00		
	Trew oldaring	1.00	\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 19,550.00		
V::B26	S1-B26 Removal of selected danger trees		Unit Cost:	\$ 210.00	0 \$	-
	S1-B26 Removal of selected danger trees		637			
	Removal of selected danger trees	1.00	\$ 210.00 \$ -	\$ 210. 00		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ -	-	
	Total material Cost per Structure		Ψ	\$ 210.00		
V::B27	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminize	ad turn o 2	Unit Cost:	\$ 426.01	0 \$	
VD21	S1-B27 Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	eu type z	680		U \$	•
	Supply and Installation of Culvert - 600 mm x 1.6 mm thick aluminized type 2	1.00		\$ 426.01		
			\$ - \$ -	\$ - \$ -	4	
			\$ -	\$ -	1	
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 426.01	-	
V::B28	S1-B28 Supply and Installation of Bridge - 3 m S1-B28 Supply and Installation of Bridge - 3 m		Unit Cost: 698	\$ 32,700.00	0 \$	-
	Supply and Installation of Bridge - 3 m	1.00		\$ 32,700.00		
		_	\$ -	\$ -		
			\$ -	\$ -	-	
			\$ -	\$ -		
	Total protocial Contract Characters		\$ -	\$ -		
	Total material Cost per Structure	<u> </u>		\$ 32,700.00		
V::B29	S1-B29 Supply and Installation of Bridge - 4 m		Unit Cost:	\$ 43,600.00	0 \$	-
	S1-B29 Supply and Installation of Bridge - 4 m Supply and Installation of Bridge - 4 m	1.00	713 \$ 43,600.00	\$ 43,600.00	T.	
	Supply and installation bridge - 4 in	1.00	\$ -	\$ -	-	
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -		
	Total material Cost per Structure			\$ 43,600.00		
V::B30	S1-B30 Supply and Installation of Bridge - 5 m		Unit Cost:	\$ 54,500.00	0 \$	-
	S1-B30 Supply and Installation of Bridge - 5 m		728			
	Supply and Installation of Bridge - 5 m	1.00	\$ 54,500.00 \$ -	\$ 54,500.00 \$ -	4	
			\$ -	\$ -		
			\$ -	\$ -	4	
			\$ - \$ -	\$ - \$ -	-	
	Total material Cost per Structure		Ţ	\$ 54,500.00	<u> </u>	
			•			



Windows Wind		Description	QTY	Unit Price	Cost per item	Quantity Total
Section Sect		Description	QII	Offit Price	Cost per item	Quantity
Supply and Installation of Bridge - 6 m	V::B31					0 \$ -
Section Sect			1.00			1
S		Supply and installation of Bridge - 6 m	1.00			-
Value St. St				\$ -	\$ -]
Test material Cost per Structure						
Total material Cost per Structure						
Support and Installation of Bridge - 7 m		Total material Cost per Structure		·		
Support and Installation of Bridge - 7 m	VB22	C4 D22 Comply and Installation of Daiden. 7 mg		Unit Cook	¢ 76 200 00	0.6
Supply and Installation of Bridge - 7 m	V::D32					- 0 \$
Signature Sign			1.00			
Total material Cost per Structure						
Total material Cost per Structure						
V::B33 S1-B33 Supply and Installation of Bridge - 8 m Unit Cost: \$ 87,200.00 0.5 Supply and Installation of Bridge - 8 m 100 \$ 67,200.00 5 77,200.00 Supply and Installation of Bridge - 8 m 1.00 \$ 67,200.00 5 77,200.00 Supply and Installation of Bridge - 10 m \$ 5		Total material Cost per Structure		\$ -		
Supply and Installation of Birdge - B m 1.00 \$.772,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.872,000 \$.972		Total material cost per Structure		l	φ 10,300.00	
Supply and Installation of Bridge - 8 m	V::B33					0 \$ -
Signature Sign			1.00			
Signature Sign		Cappy and installation of bridge = 0 III	1.00			
S S S S S C				\$ -	\$ -	
Total material Cost per Structure						
V::B34 S1-B34 Supply and Installation of Bridge - 10 m Unit Cost: \$ 1,000,000,000 0 \$ - 5,100,000,000 0 \$						
St-338 Supply and Installation of Bridge - 10 m 10 8 100,000,00		Total material Cost per Structure			\$ 87,200.00	
St-338 Supply and Installation of Bridge - 10 m 10 8 100,000,00	VR34	S1-B34 Supply and Installation of Bridge - 10 m		Unit Cost	\$ 109,000,00	0.5
S S S S S S S S S S	1504					
S		Supply and Installation of Bridge - 10 m	1.00			
S						-
Total material Cost per Structure						
Total material Cost per Structure						
V::B35 Supply and Installation of Bridge - 13 m		Total material Cost per Structure		\$ -		-
S1-B35 Supply and Installation of Bridge - 13 m 1.00 \$ 141700.00		Total material cost per otructure			103,000.00	
Supply and Installation of Bridge - 13 m	V::B35					0 \$ -
S			1.00			
S S S C		11.2			\$ -]
S						-
Total material Cost per Structure						-
V::B36 S1-B36 Supply and Installation of Bridge - 14 m Unit Cost: \$ 152,600.00 0 \$ St-B36 Supply and Installation of Bridge - 14 m 1.00 \$ 152,600.00 \$ 152,600.00 \$ 152,600.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -				\$ -		
St-B36 Supply and Installation of Bridge - 14 m 1.00 \$ 152,600.00 \$ 152,6		Total material Cost per Structure			\$ 141,700.00	
Supply and Installation of Bridge - 14 m	V::B36					0 \$ -
S			1.00			1
S		Supply and installation of Bridge - 14 III	1.00			-
S				\$ -	\$ -]
S - S - S - S - S - S - S - S - S - S						4
Total material Cost per Structure \$ 152,600.00						-
St-B37 Supply and Installation of Bridge - 15 m		Total material Cost per Structure				
St-B37 Supply and Installation of Bridge - 15 m	VD27	S1 D27 Supply and Installation of Bridge 15 m		Unit Costs	¢ 162 500 00	0 ¢
Supply and Installation of Bridge - 15 m	VD31					- 0 \$
S - S - S - S - S - S - S - S - S - S			1.00	\$ 163,500.00	\$ 163,500.00	
S - S - S - S - S - S - S - S - S - S						-
S					\$ -]
Total material Cost per Structure \$ 163,500.00 V::B38 S1-B38 Supply and Installation of Bridge - 16 m Unit Cost: \$ 174,400.00 0 \$ - S1-B38 Supply and Installation of Bridge - 16 m 888 174,400.00 174,400					\$ -]
V::B38 Supply and Installation of Bridge - 16 m		Total material Cost per Structure		5 -		-
S1-B38 Supply and Installation of Bridge - 16 m 888 Supply and Installation of Bridge - 16 m 1.00 \$ 174,400.00 \$ 174,400.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			1	ı	,	
Supply and Installation of Bridge - 16 m 1.00 \$ 174,400.00 \$ 174,400.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	V::B38					0 \$ -
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			1.00			
\$ - \$ - \$ - \$ - \$ - \$ -		in the second se	1.30	\$ -	\$ -]
\$ - \$ - \$ - \$ -						-
\$ - \$ -						-
Total material Cost per Structure \$ 174,400.00					\$ -]
		Total material Cost per Structure			\$ 174,400.00	





	Description	QTY	Unit Price	Cost per item	Quantity Total
V::B39	S1-B39 Supply and Installation of Bridge - 25 m S1-B39 Supply and Installation of Bridge - 25 m		Unit Cost: 904	\$ 272,500.00	0 \$ -
	S1-B39 Supply and Installation of Bridge - 25 m Supply and Installation of Bridge - 25 m	1.00		\$ 272,500.00	
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -]
	Total material Cost per Structure			\$ 272,500.00	
V::B40	S1-B40 Supply and Installation of Bridge - 35 m S1-B40 Supply and Installation of Bridge - 35 m		Unit Cost: 920	\$ 381,500.00	0 \$ -
	Supply and Installation of Bridge - 35 m	1.00			_
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure		\$ -	\$ - \$ 381,500.00	-
	Total material Cost per Structure			\$ 361,300.00	
V::B41	S1-B41 Supply and Installation of Bridge - 50 m S1-B41 Supply and Installation of Bridge - 50 m		Unit Cost: 936		
	Supply and Installation of Bridge - 50 m	1.00			
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ 545,000.00	-
	Total material cost per Structure			\$ 343,000.00	
V::B42	S1-B42 Supply and Installation of Bridge - 60 m S1-B42 Supply and Installation of Bridge - 60 m		952		
	Supply and Installation of Bridge - 60 m	1.00			
			\$ -	\$ - \$ -	A
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure		\$ -	\$ - \$ 654,000.00	-
V::B43	S1-B43 Supply and Installation of Bridge - 65 m S1-B43 Supply and Installation of Bridge - 65 m		Unit Cost:	\$ 708,500.00	0 \$ -
	Supply and Installation of Bridge - 65 m	1.00			
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	4
			\$ -	\$ -	†
			\$ -	\$ -]
	Total material Cost per Structure			\$ 708,500.00	
V::B44	S1-B44 Installation of Corduroy Road		Unit Cost:	\$ 139.45	0 \$ -
	S1-B44 Installation of Corduroy Road	4.00	984	A 100 45	
	Installation of Corduroy Road	1.00	\$ 139.45 \$ -	\$ 139.45 \$ -	-
			\$ -	\$ -	_
			\$ -	\$ -	4
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure			\$ 139.45	
V::B45	S1-B45 Installation of Access Road - Access Class 3		Unit Cost:	\$ 80,700.00	0 \$ -
	S1-B45 Installation of Access Road - Access Class 3 Installation of Access Road - Access Class 3	1.00	1020 \$ 80,700.00		
	Installation of Notice Place Office O	1.00	\$ -	\$ 60,700:00	
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	4
			\$ -	\$ -	-
	Total material Cost per Structure			\$ 80,700.00	1
V::B46	S1-B46 Installation of Access Road - Access Trail S1-B46 Installation of Access Road - Access Trail		Unit Cost:	\$ 80,700.00	0 \$ -
	Installation of Access Road - Access Trail	1.00			
		00	\$ -	\$ -]
			\$ -	\$ - \$ -	4
			7	7	⊣
			\$ -	\$ -	
	Total material Cost per Structure		\$ - \$ -	\$ - \$ - \$ 80,700.00	<u>-</u>

Project Estimate - Valard Construction Ltd.





	Description	QTY	Unit Price	Cost per item	Quantity	Total	
V::B47	S1-B47 Installation of Access Road - Bypass Trail S1-B47 Installation of Access Road - Bypass Trail		Unit Cost: 1052	\$ 80,700.00		0 \$	•
	Installation of Access Road - Bypass Trail	1.00		\$ 80,700.00			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 80,700.00		_	
V::C01	\$1.01 Installation of Cury Wire Angher in sail as not design drawings and to	abnical anacifi	Unit Cost	\$ 468.58		31000 \$	14,526,107.04
VCU1	S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and tec S1-C1 Installation of Guy Wire Anchor in soil as per design drawings and technical specification	ciinicai speciii	1071	a 400.30		31000 \$	14,526, 107.04
	Guy Anchor in soil (/m)		\$ 431.08				
	Anchor Grout (I)			\$ -			
	Room and Board (day)	0.15	\$ 250.01 \$ -	\$ 37.50 \$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 468.58			
V::C02	S1-C2 Installation of Guy Wire Anchor in rock as per design drawings and to	echnical speci	Unit Cost:	\$ 432.81		29000 \$	12,551,352.51
VOUZ		Manhour Row		402.01		25000 \$	12,001,002.01
	Guy Anchor in rock (/m)		\$ 395.30				
	Anchor Grout (I)	0.15	\$ 1.73	\$ -			
	Room and Board (day)	0.15	\$ 250.01 \$ -	\$ 37.50 \$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 432.81			
V::C02-1	S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and	technical spec	Unit Cost:	\$ 994.35		4068 \$	4,045,029.51
	S1-C2 Testing of Guy Wire Anchor up to 550kN as per design drawings and technical specification					, , , ,	,,
	Pull Test		\$ 994.35				
	Room and Board (day)	0	\$ 250.01 \$ -	\$ - \$ -			
			\$ -	\$ -	1		
			\$ -	\$ -			
	7.1		\$ -	\$ -			
	Total material Cost per Structure			\$ 994.35			
V::C02-2	S1-C2 Testing of Guy Wire Anchorup to 900kN as per design drawings and		Unit Cost:	\$ 994.35		208 \$	206,825.50
		Manhour Row					
	Pull Test	0	\$ 994.35 \$ 250.01				
	Room and Board (day)	0	\$ 250.01	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure		\$ -	\$ - \$ 994.35			
	Total material Gost per of detaile			y 334.33			
V::C03	S1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per			\$ 278.62		29 \$	8,080.06
	S1-C3 Assembly and Installation of Foundation Types A1-1 (100 kPa) as per Dwg 505573-4622-420 Screened Crushed Rock (Tonne)	:Manhour Row: 5.88		\$ 278.62	ı		
	Screened Clusted Rock (Tonne)	5.00	\$ 47.36	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
	Total material Cost per Structure		<u> </u>	\$ 278.62			
V::C04	S1-C4 Assembly and Installation of Foundation Types A2-1 (100 kPa) as per			\$ 468.98		0 \$	-
	S1-C4 Assembly and Installation of Foundation Types A2-1 (100 kPa) as per Dwg 505573-4622-420 Screened Crushed Rock (Tonne)	:Manhour Row: 9.90		\$ 468.98	1		1
	Concensed Orderical Fredit (Ferrica)	0.00	\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
	Total material Cost per Structure		-	\$ 468.98			
V::C05	S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per			\$ 377.13		22 \$	8,296.77
	S1-C5 Assembly and Installation of Foundation Types A3-1 (100 kPa) as per Dwg 505573-4622-420 Screened Crushed Rock (Tonne)	7.96		\$ 377.13			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -	1		
	Total material Cost per Structure			\$ 377.13			

Project Estimate - Valard Construction Ltd.

Material Summaries - by Structure



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::C06	S1-C6 Assembly and Installation of Foundation Types A4-1 (100 kPa) as per			\$ 468.98	0 \$ -
	S1-C6 Assembly and Installation of Foundation Types A4-1 (100 kPa) as per Dwg 505573-4622-421 Screened Crushed Rock (Tonne)	9.90		\$ 468.98	1
	Concensed Gradular Floor (Fermio)	0.00	\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 468.98	
V::C07	S1-C7 Assembly and Installation of Foundation Types B1-1 (100 kPa) as per	Dwa 505573-4	Unit Cost:	\$ 538.82	2 \$ 1,077.65
	S1-C7 Assembly and Installation of Foundation Types B1-1 (100 kPa) as per Dwg 505573-4622-420	Manhour Row	: 1187		1,011111
	Screened Crushed Rock (Tonne)	11.37			
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		Φ -	\$ 538.82	
V::C08	S1-C8 Assembly and Installation of Foundation Types B2-1 (100 kPa) as per			\$ 446.78	0 \$ -
	S1-C8 Assembly and Installation of Foundation Types B2-1 (100 kPa) as per Dwg 505573-4622-420 Screened Crushed Rock (Tonne)	9.43		\$ 446.78	
	` ′	2.10	\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		_	\$ 446.78	
V::C09	S1-C9 Assembly and Installation of Foundation Types A1-1A (250 kPa) as pe	er Dwg 505 573	Unit Cost:	\$ 126.90	164 \$ 20,812.03
	S1-C9 Assembly and Installation of Foundation Types A1-1A (250 kPa) as per Dwg 505573-4622-42	Manhour Row	: 1213		
	Screened Crushed Rock (Tonne)	2.68	\$ 47.38 \$ -	\$ 126.90 \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		Φ -	\$ 126.90	1
	21 212 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D		\$ 246.96	
V::C10	S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as ps: S1-C10 Assembly and Installation of Foundation Types A2-1A (250 kPa) as per Dwg 505573-4622-4			\$ 246.96	0 \$ -
	Screened Crushed Rock (Tonne)	5.21	\$ 47.38		
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
			\$ -	\$ -	
	Total material Continue Otwarture		\$ -	\$ -	-
	Total material Cost per Structure			\$ 246.96	
V::C11	S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as p			\$ 168.54	121 \$ 20,393.64
	S1-C11 Assembly and Installation of Foundation Types A3-1A (250 kPa) as per Dwg 505573-4622-4 Screened Crushed Rock (Tonne)	12DD-0084 for To 3.56			T
	Screened Clusted Rock (Tonne)	3.30	\$ 47.36	\$ 100.54	1
			\$ -	\$ -	
			\$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 168.54	1
V::C12	S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as p	oer Dwa 50557	Unit Cost	\$ 246.96	0 \$ -
V012	S1-C12 Assembly and Installation of Foundation Types A4-1A (250 kPa) as per Dwg 505573-4622-4				- · · · · · · · · · · · · · · · · · · ·
	Screened Crushed Rock (Tonne)	5.21	\$ 47.38	\$ 246.96	
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ - \$ 246.96	-
			1		
V::C13	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as p. S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as par Diver 505573 (632)			\$ 264.42	14 \$ 3,701.92
	S1-C13 Assembly and Installation of Foundation Types B1-1A (250 kPa) as per Dwg 505573-4622-4 Screened Crushed Rock (Tonne)	Mannour Row			
	`		\$ -	\$ -]
			\$ -	-	
			\$ - \$ -	\$ - \$ -	1
			\$ -	\$ -]
	Total material Cost per Structure			\$ 264.42	

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Sci-Cit Assembly and Installation of Foundation Types C1-1 (100 MPs) as per Dug 50937-4012-4 Member Rove: 1201		Description	QTY	Unit P	rice	Cost per item	Quantity Total
Second Clusted Rock (Total) Second Clusted Rock (Total) Second Clusted Rock (Total) Second Clusted Rock (Total) Second Clusted Rock (Total) Second Clusted Rock (Total) Second Second Clusted Rock (Total) Second	V::C14	S1-C14 Assembly and Installation of Foundation Types B2-1A (250 kPa) as	per Dwg 50557	Unit C	ost:	\$ 446.78	0 \$ -
S		Screened Crushed Rock (Tonne)	9.43				_
Second Counted Rock (Tome) Second Counted							-
Since Sinc					-		
Total material Cost per Structure					-		
Vic.101 SI-C15 Assembly and Installation of Foundation Types C1-1 (100 MPa) as per Day 595073 Unit Cost:		Total material Coet per Structure		\$	-		
Script Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505372. Unit Cost: St. C16 Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505372. Unit Cost: St. C16 Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C16 Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C16 Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C16 Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C16 Assembly and Installation of Foundation Types C2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C17 Assembly and Installation of Foundation Types D1+1 (100 kPa) as per Deg 505373. Unit Cost: St. C17 Assembly and Installation of Foundation Types D1+1 (100 kPa) as per Deg 505373. Unit Cost: St. C17 Assembly and Installation of Foundation Types D1+1 (100 kPa) as per Deg 505373. Unit Cost: St. C17 Assembly and Installation of Foundation Types D1+1 (100 kPa) as per Deg 505373. Unit Cost: St. C17 Assembly and Installation of Foundation Types D1+1 (100 kPa) as per Deg 505373. Unit Cost: St. C17 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Installation of Foundation Types D2+1 (100 kPa) as per Deg 505373. Unit Cost: St. C18 Assembly and Inst		Total material Cost per Structure	1	l		\$ 440.70	
Screened Crushed Rock (Tome)	V::C15					\$ 471.41	96 \$ 45,255.10
Second Creamed Cost per Structure						\$ 471.41	
St-C16 Assembly and Installation of Foundation Types C2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C16 Assembly and Installation of Foundation Types C2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C16 Assembly and Installation of Foundation Types C2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C17 Assembly and Installation of Foundation Types C1-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C17 Assembly and Installation of Foundation Types D1-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C17 Assembly and Installation of Foundation Types D1-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C17 Assembly and Installation of Foundation Types D1-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C17 Assembly and Installation of Foundation Types D1-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C17 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C18 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C18 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C18 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C18 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C18 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C18 Assembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C19 Desembly and Installation of Foundation Types D2-1 (100 MPs) as per Dwg 505073- Unit Cost: St-C19 Desembly and Installation of Foundation Types D2-1 (100 MPs) as per topes 100073- Unit Cost: St-C19 Desembly and Installation of Foundation Types D2-1 (100 MPs) as per topes 100073- Unit Cost: St-C19 Desembly and Installation of Foundation Types D2-1 (100 MPs) as per topes 100073- Unit Cost: St-C19 Desembly and Installation of Foundation Types D2-1 (100 MPs) as per topes 100073- Unit Cost: St-C19 Desembly and Installation of		Constitution (Tolling)	0.00				
S							
Total material Cost per Structure							-
Total material Cost per Structure							-
St-Cle Ausembly and Installation of Foundation Types D1-1 (100 kPa) as per Dug 505573-4622-41 Manihour Row: 13.55		Total material Cost per Structure				\$ 471.41	
St-Cle Ausembly and Installation of Foundation Types D1-1 (100 kPa) as per Dug 505573-4622-41 Manihour Row: 13.55	/··C16	S1-C16 Assembly and Installation of Foundation Types C2-1 (100 kPa) as no	er Dwa 505573	Unit C	nst·	\$ 577.46	0.5
St. C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dug 509572-01x Cost: \$ 024,60 112 \$ 0						ψ 077.40	
1				\$			
S							-
Total material Cost per Structure							
Total material Cost per Structure				\$		\$ -	
### S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C17 Assembly and Installation of Foundation Types D1-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation Of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation Of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation Of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: S1-C19 Assembly and Installation Of Found		7.1		\$	-		
St-C17 Assembly and Installation of Foundation Types D1-1 (100 MPs) as per Dwg 509573-4622-4i Man Nour Row: 13.18		Total material Cost per Structure				\$ 577.46	
Screened Crushed Rock (Tonne)	V::C17					\$ 624.60	112 \$ 69,955.05
### ST-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573 Unit Cost: ### ST-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per technical specification Manhour Row: ### ST-C19 Assembly and Installation Types E1-1 (100 kPa) as per technical specification Manhour Row: ### ST-C19 Unit Lesing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: ### ST-C20 Unit Lesing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) a						\$ 624 60	
S		Gordened Grastica (Torrito)	10.10		-		
S							
Total material Cost per Structure							-
St-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573- Unit Cost: \$ 683.89 0 \$					1		-
S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-45 (Manihour Row. 14.43 \$ 47.35 \$ 683.89		Total material Cost per Structure				\$ 624.60]
St-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as per Dwg 505573-4622-45 Manhour Row. 13.62	V··C18	S1-C18 Assembly and Installation of Foundation Types D2-1 (100 kPa) as no	ar Dwg 505573	. Unit C	net:	\$ 683.80	0.\$
S	VO10					Ψ 003.03	
S		Screened Crushed Rock (Tonne)	14.43		47.38		
S							4
S					-		-
Total material Cost per Structure \$ 683.89				\$	-	\$ -	
#::C19 S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573- Unit Cost: \$1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: S1-C19 Assembly and Installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4622-42 Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-3, or D2-3, or E1-3 as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-3, or D2-3, or E1-3 as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-3, or D2-3, or E1-3 as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-3, or D2-3, or E1-3 as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-3, or D2-3, or E1-3 as per technical specification Manhour Row: S1-C20 Uplife testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per Leg for Types C1-1, or D2-1, or E1-1 (10		T. () () () () ()		\$	-/		_
S1-C19 Assembly and installation of Foundation Types E1-1 (100 kPa) as per Dwg 505573-4822-42 Manhour Row: 1375		Total material Cost per Structure				\$ 663.69	1
Screened Crushed Rock (Tonne) 15.97 \$ 47.38 \$ 756.68 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - Total material Cost per Structure \$ 756.68	V::C19					\$ 756.68	20 \$ 15,133.65
S						ф 756.60	
S		Screened Clusted Rock (Tonne)	15.97				-
S				\$	-	\$ -	
S - \$ - \$ 756.68					-		4
Total material Cost per Structure							-
### S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical sp Unit Cost: S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specificatio Manhour Row: S		Total material Cost per Structure		Ψ			<u> </u>
S1-C20 Uplift testing per leg for Types C1-1, or D2-1, or E1-1 (100 kPa) as per technical specificatio Manhour Row: \$ \$ \$ \$ \$ \$ \$ \$ \$							
S - S - S - S - S - S - S - S - S - S	/::C20					-	6 \$ -
		O 1-V20 Opinic looking per region Types O 1-1, or D2-1, or D1-1 (100 KFa) as per recrimical specification	imannoul NOW.			\$ -	
S - S - S - S - S - S - S - S - S - S				\$	-	\$ -	
S - S - S -							-
Total material Cost per Structure \$ - \$ - \$ Total material Cost per Structure \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ -							1
S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 a Unit Cost: S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per tec Manhour Row: 1404 S - \$ - \$ \$						\$ -	
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		Total material Cost per Structure]			\$ -	1
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	/::C21					\$ -	6 \$ -
\$ - \$ - \$ - \$ - \$ - \$ -		S1-C21 Downward, uplift, and lateral load testing per leg for Types C1-3, or D2-3, or E1-3 as per ter	Manhour Row:			Φ.	
							4
							1
				\$		\$ -	
				\$	-	\$ - \$ -	-
Total material Cost per Structure \$ -		Total material Cost per Structure		Ψ			1



	Description	QTY	Unit Price	Cost per item	Quantity	Total	
V::C22	S1-C22 Assembly and Installation of Foundation Type A1-2 as per Dwg 5055			\$ 1,909.69		211 \$	402,944.59
	S1-C22 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3)	1.66		\$ 1,909.69			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
	Total material Cost per Structure		Φ -	\$ 1,909.69			
	Total material cost per citation	ı	I.	.,000.00			
V::C23	S1-C23 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055			\$ 2,798.41		0 \$	-
	S1-C23 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0074 f Small Q Concrete (m^3)	Manhour Row 2.43					
	Small Q Concrete (III's)	2.43	\$ 1,150.00	\$ 2,790.41	1		
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	-			
	Total material Cost per Structure		\$ -	\$ - \$ 2,798.41	-		
	Total material Cost per Structure	l		2,790.41			
V::C24	S1-C24 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055	73-4622-42DD	Unit Cost:	\$ 1,909.69		154 \$	294,092.26
	S1-C24 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0074 f	Manhour Row					
	Small Q Concrete (m^3)	1.66					
			\$ -	\$ - \$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure		_	\$ 1,909.69			
V::C25	S1-C25 Assembly and Installation of Foundation Type A4-2 as per Dwg 5055	573_4622_42 D F	Unit Cost:	\$ 2,798.41		0 \$	
VG25	S1-C25 Assembly and installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0074 f					U Ş	•
	Small Q Concrete (m^3)	2.43					
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ - \$ -	-		
			\$ -	\$ -	-		
	Total material Cost per Structure		•	\$ 2,798.41			
V 000	0.000 A	4000 40DE		0.700.44		10 0	50 400 70
V::C26	S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055 S1-C26 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0074 f			\$ 2,798.41		19 \$	53,169.79
	Small Q Concrete (m/3)	2.43		\$ 2,798.41			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ - \$ -			
	Total material Cost per Structure		Ψ	\$ 2,798.41			
V::C27	S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 5055			\$ 2,793.12		0 \$	•
	S1-C27 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3)	Manhour Row 2.43					
	Official Q Concrete (in 3)	2.40	\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -	4		
	Total material Cost per Structure		\$ -	\$ - \$ 2,793.12	1		
	- I I I I I I I I I I I I I I I I I I I	l .					
V::C28	S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 5055			\$ 1,523.52		18 \$	27,423.36
	S1-C28 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f						
	Small Q Concrete (m^3)	1.32	\$ 1,150.00 \$ -	\$ 1,523.52 \$ -	1		
			\$ -	\$ -	1		
			\$ -	\$ -			
			\$ -	\$ -	1		
	Total material Cost per Structure		\$ -	\$ - \$ 1,523.52	-		
	Total material cost per off detaile	l	l	ψ 1,323.32	I		
V::C29	S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055	73-4622-42DD	Unit Cost:	\$ 2,541.85		0 \$	-
	S1-C29 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f						
	Small Q Concrete (m^3)	2.21			4		
			\$ -	\$ - \$ -	1		
			\$ -	\$ -	1		
			\$ -	\$ -]		
			\$ -	\$ -	_		
	Total material Cost per Structure			\$ 2,541.85			





	Description	QTY	Unit Price	Cost per item	Quantity	Total	
V::C30	S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055			\$ 2,073.68		14 \$	29,031.52
	S1-C30 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	1.80		\$ 2,073.68			
	Small & Control (III C)	1.00	\$ -	\$ -			
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -			
	Total material Cost per Structure		•	\$ 2,073.68			
14 004	0.00.4			A 0544.05			
V::C31	S1-C31 Assembly and Installation of Foundation Type A4-2 as per Dwg 5055 S1-C31 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 fr			\$ 2,541.85		0 \$	-
	Small Q Concrete (m^3)	2.21		\$ 2,541.85			
			\$ -	\$ -]		
			\$ -	-			
			\$ - \$ -	\$ - \$ -	1		
			\$ -	\$ -			
	Total material Cost per Structure			\$ 2,541.85			
V::C32	S1-C32 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055	573_4622_42DF	Unit Cost	\$ 2,708.48		3 \$	8,125.44
V032	S1-C32 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 ft			\$ 2,700.40		3 0	0,123.44
	Small Q Concrete (m^3)	2.36	\$ 1,150.00	\$ 2,708.48			
			\$ -	\$ -			
			\$ -	\$ - \$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure			\$ 2,708.48			
V::C33	S1-C33 Assembly and Installation of Foundation Type A1-2 as per Dwg 5055	73-4622-42 D D	Unit Cost:	\$ 1,523.52		159 \$	242,239.68
	S1-C33 Assembly and Installation of Foundation Type A1-2 as per Dwg 505573-4622-42DD-0058 f					,	
	Small Q Concrete (m^3)	1.32		\$ 1,523.52			
			\$ -	\$ - \$ -			
			\$ -	\$ -	1		
			\$ -	\$ -			
	Total material Continue Otmortune		\$ -	\$ - \$ 1,523.52			
	Total material Cost per Structure			\$ 1,523.52	<u> </u>		
V::C34	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 5055			\$ 2,541.85		0 \$	-
	S1-C34 Assembly and Installation of Foundation Type A2-2 as per Dwg 505573-4622-42DD-0058 f Small Q Concrete (m^3)	Manhour Row: 2.21		\$ 2,541.85			
	Small Q Concrete (mrs)	2.21	\$ 1,150.00	\$ 2,541.65			
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ - \$ -			
	Total material Cost per Structure		V	\$ 2,541.85			
V::C35	S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 5055 S1-C35 Assembly and Installation of Foundation Type A3-2 as per Dwg 505573-4622-42DD-0058 f			\$ 2,073.68		117 \$	242,620.56
	Small Q Concrete (m^3)	1.80		\$ 2,073.68			
			\$ -	\$ -			
			\$ -	\$ -	4		
			\$ - \$ -	\$ - \$ -	1		
			\$ -	\$ -]		
	Total material Cost per Structure			\$ 2,073.68	<u>l</u>		
V::C36	S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 5055	73-4622-4200	Unit Cost	\$ 2,541.85		0 \$	-
v630	S1-C36 Assembly and Installation of Foundation Type A4-2 as per Dwg 505573-4622-42DD-0058 f			Ψ 2,341.03		U \$	-
	Small Q Concrete (m ³)	2.21	\$ 1,150.00				
			\$ -	\$ -			
			\$ -	\$ - \$ -	1		
			\$ -	\$ -]		
			\$ -	\$ -	1		
	Total material Cost per Structure	L		\$ 2,541.85	<u> </u>		
V::C37	S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 5055			\$ 2,708.48		15 \$	40,627.20
	S1-C37 Assembly and Installation of Foundation Type B1-2 as per Dwg 505573-4622-42DD-0058 ft			0.700 10			
	Small Q Concrete (m^3)	2.36	\$ 1,150.00 \$ -	\$ 2,708.48 \$ -	1		
			\$ -	\$ -	<u> </u>		
			\$ -	\$ -			
			\$ - \$ -	\$ - \$ -	1		
	Total material Cost per Structure		Ψ -	\$ 2,708.48	1		
				,			







	Description	QTY	Unit Price	Cost per item	Quantity Total
/::C38	S1-C38 Assembly and Installation of Foundation Type B2-2 as per Dv			\$ 2,793.12	0 \$ -
	S1-C38 Assembly and Installation of Foundation Type B2-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3)	D-0026 f Manhour Row: 2.43	\$ 1,150.00		T
	Small Q Concrete (III 3)	2.43	\$ 1,150.00	\$ 2,793.12	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ - \$ -	
	Total material Cost per Structure		•	\$ 2,793.12	
/::C39	S1-C39 Assembly and Installation of Foundation Type C1-2 as per Dv			\$ 2,793.12	104 \$ 290,484.4
	S1-C39 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3)	D-0026 f Manhour Row: 2.43	1709 \$ 1,150.00		
	Small Q Concrete (III-5)	2.43	\$ 1,150.00	\$ 2,793.12	
			\$ -	\$ -	
			\$ -	-	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure		Ψ	\$ 2,793.12	
::C40	S1-C40 Assembly and Installation of Foundation Type C2-2 as per Du	wg 505573-4622-42DD	Unit Cost:	\$ 2,793.12	0.\$ -
	S1-C40 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42D		1726		
	Small Q Concrete (m^3)	2.43			
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	T. I		\$ -	\$ -	
	Total material Cost per Structure			\$ 2,793.12	
::C41	S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dv S1-C41 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573-4622-42D		Unit Cost:	\$ 2,793.12	1 <mark>24</mark> \$ 346,346.8
	Small Q Concrete (m^3)	2.43			
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 2,793.12	
::C42	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dv	wa 505 573-46 22-42DD	Unit Cost:	\$ 2,793.12	0 \$ -
	S1-C42 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42D				•
	Small Q Concrete (m^3)	2.43	\$ 1,150.00	\$ 2,793.12	
		2.10			4
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ - \$ - \$ -	\$ - \$ - \$ - \$	
	Total material Cost per Structure		\$ - \$ - \$ -	\$ - \$ - \$	
:C43	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$	24 \$ 67,034.
:C43	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw	wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - Unit Cost:	\$ - \$ - \$ - \$ - \$ 2,793.12	24 \$ 67,034.8
:C43	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv	wg 505573-4622-42DD	\$ - \$ - \$ - \$ - \$ - \$ 1,1777	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12	24 \$ 67,034.8
::C43	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw	wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - Unit Cost:	\$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ -	24 \$ 67,034.8
::C43	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw	wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ 1,1777	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12	24 \$ 67,034.8
::C43	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw	wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ -	24 \$ 67,034.8
:C43	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3)	wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ -	24 \$ 67,034.8
	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43	\$ - \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3)	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43	\$ - \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dw S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43	\$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ 1,150.00	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ 5 - \$ 5 - \$ 5 - \$ 5 - \$ 5 - \$ 5 2,793.12 \$ \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ \$ 2,793.12 \$	
	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dv	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ - \$ 1,150.00 \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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:C44	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dvs S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dvs S05573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvs S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvs S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvs S05573-4622-42D Small Q Concrete (m^3)	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row: 2.43	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
:C44	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dwg 505573-4622-42D Small Q Concrete (m^3)	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row: 2.43	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ 2,793.12 \$ 2,793.12 \$ 2,793.12 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	84 \$ 234,622.0
::C44	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dvg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvg Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	84 \$ 234,622.0
::C44	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dvg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvg Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$	84 \$ 234,622.0
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::C44	Total material Cost per Structure S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dv S1-C43 Assembly and Installation of Foundation Type E1-2 as per Dvg 505573-4622-42D Small Q Concrete (m^3) Total material Cost per Structure S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvg S1-C44 Assembly and Installation of Foundation Type C1-2 as per Dvg Small Q Concrete (m^3) Total material Cost per Structure S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg S1-C45 Assembly and Installation of Foundation Type C2-2 as per Dvg	wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row: 2.43 wg 505573-4622-42DD D-0026 f Manhour Row:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ 2,793.12 \$ 2,793.1	84 \$ 234,622.0

Valard Construction LP





	Description	QTY	Unit Price	Cost per item	Quantity	Total	
V::C46	S1-C46 Assembly and Installation of Foundation Type D1-2 as per Dwg 5055			\$ 2,793.12		104 \$	290,484.48
	S1-C46 Assembly and Installation of Foundation Type D1-2 as per Dwg 505573-4622-42DD-0026 f Small Q Concrete (m^3)	2.43			1		
			\$ -	\$ -	1		
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -			
	Total material Cost per Structure		\$ -	\$ - \$ 2,793.12			
	The state of the s		II.	_,			
V::C47	S1-C47 Assembly and Installation of Foundation Type D2-2 as per Dwg 5055			\$ 2,793.12		0 \$	-
	S1-C47 Assembly and Installation of Foundation Type D2-2 as per Dwg 505573-4622-42DD-0026 f						
	Small Q Concrete (m^3)	2.43	\$ 1,150.00 \$ -	\$ 2,793.12 \$ -	-		
			\$ -	\$ -	1 .		
			\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -	-		
	Total material Cost per Structure		L	\$ 2,793.12			
V::C48	S1-C48 Assembly and Installation of Foundation Type E1-2 as per Dwg 5055	73-4622-42DE	Unit Cost:	\$ 2,793.12		20 \$	55,862.40
	S1-C48 Assembly and Installation of Foundation Type E1-2 as per Dwg 505573-4622-42DD-0026 f						00,000.10
	Small Q Concrete (m^3)	2.43					
	Non-Shrink grout (I)		\$ 9.20				
			\$ - \$ -	\$ - \$ -			
			\$ -	\$ -	-		
			\$ -	\$ -			
	Total material Cost per Structure			\$ 2,793.12			
V::C49	S1-C49 Installation and Testing of 25M Mechanical Rock Anchor as per design S1-C49 Installation and Testing of 25M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings and techni			\$ 23.48		12924 \$	303,500.24
	Non-Shrink grout (I)		9.20				
	3 (/		\$ -	\$ -			
			\$ -	\$ -			
			\$ -	\$ -	-		
			\$ -	\$ -	-		
	Total material Cost per Structure		Φ -	\$ 23.48	-		
				23.40			
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi			\$ 30.52		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical	Manhour Row	r: 1896	\$ 30.52		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi	Manhour Row	1896 3 \$ 9.20	\$ 30.52 \$ 30.52		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical	Manhour Row	1896 9.20	\$ 30.52		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical	Manhour Row	1896 \$ 9.20 \$ - \$ - \$ -	\$ 30.52 \$ - \$ -		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical	Manhour Row	1896 \$ 9.20 \$ - \$ - \$ -	\$ 30.52 \$ - \$ - \$ - \$ -		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	Manhour Row	1896 \$ 9.20 \$ - \$ - \$ -	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ -		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per desi S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical	Manhour Row	1896 \$ 9.20 \$ - \$ - \$ -	\$ 30.52 \$ - \$ - \$ - \$ -		870 \$	26,551.62
V::C50	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design 51-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technical	Manhour Row 3.3 gn drawings a	1896 \$ 9,20 \$ - \$ - \$ - \$ - \$ - \$ -	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ -		870 \$	26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	Manhour Row 3.3 gn drawings a Manhour Row	1896 1 \$ 9,20 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28			26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design 51-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technical	Manhour Row 3.3 gn drawings a Manhour Row	1896 \$ 9,20 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28			26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	Manhour Row 3.3 gn drawings a Manhour Row	: 1896 \$ 9,20 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28			26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	Manhour Row 3.3 gn drawings a Manhour Row	1896 18 9,20 18 - 18 - 18 - 18 - 1912 1912 1912 1912 1912 1912	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28			26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	Manhour Row 3.3 gn drawings a Manhour Row	: 1896 \$ 9,20 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings a	Manhour Row 3.3 gn drawings a Manhour Row	1896 \$ 9,20 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			26,551.62
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	Manhour Row 3.3 gn drawings a Manhour Row	T 1896 S 9,20 S - S - S - S - S - S - S - S - S - S	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -			26,551.62
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings a	gn drawings a Manhour Row 4.1	1896 9,20 \$ \$ \$ \$ \$ \$ \$ \$ -	\$ 30.52 \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28		0 \$	-
	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technical Rock Anchor as per design drawings a	gn drawings a Manhour Row 4.1	a Unit Cost: 1896 1	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ 37.28			26,551.62
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row Anhour Row	a Unit Cost: 1896 1	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ 37.28 \$ - \$ - \$ 37.28 \$ - \$ 37.28		0 \$	-
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row Anhour Row	1896 18 9.20 18 9.20 18 18 18 18 18 1912 19 9.20 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18	\$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ 37.28 \$ - \$ - \$ 37.28		0 \$	-
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic S1-C52 Installation and S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation S1-C52 Installation	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row Anhour Row	: 1896	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ 37.28 \$ - \$ - \$ - \$ - \$ 30.52		0 \$	-
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V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I)	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row 5.0 gn drawings a Manhour Row Anhour Row Shanhour Row	a Unit Cost: 1912 9 20 1914 1915 1916 1917 1918	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 37.28 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22104 \$	1,017,393.66
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 In	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row 5.0 gn drawings a Manhour Row Anhour Row Shanhour Row	1896	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 37.28 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22104 \$	1,017,393.66
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 In	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row 5.0 gn drawings a Manhour Row Anhour Row Shanhour Row	a Unit Cost: 1912 9 20 1912 9 20 1912 9 20 1912 9 20 1912	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22104 \$	1,017,393.66
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 In	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row 5.0 gn drawings a Manhour Row Anhour Row Shanhour Row	a Unit Cost: 1912 9 9.20 10 1914 10	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22104 \$	1,017,393.66
V::C51	S1-C50 Installation and Testing of 29M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C51 Installation and Testing of 32M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C52 Installation and Testing of 43M Mechanical Rock Anchor as per design drawings and technic Non-Shrink grout (I) Total material Cost per Structure S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation and Testing of 57M Mechanical Rock Anchor as per design drawings and technic S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 Installation S1-C53 In	gn drawings a Manhour Row 4.1 gn drawings a Manhour Row 5.0 gn drawings a Manhour Row Anhour Row Shanhour Row	a Unit Cost: 1912 9 20 1912 9 20 1912 9 20 1912 9 20 1912	\$ 30.52 \$ 30.52 \$ - \$ - \$ - \$ - \$ 30.52 \$ 37.28 \$ 37.28 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		22104 \$	1,017,393.66



	Description	QTY	Unit Price	Cost per item	Quantity T	otal
V::C54	S1-C54 Installation and Testing of 64M Mechanical Rock Anchor as per desi S1-C54 Installation and Testing of 64M Mechanical Rock Anchor as per design drawings and technic		Unit Cost:	\$ 76.09	45	3,423.89
	Non-Shrink grout (I)	8.3	\$ 9.20	\$ 76.09		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 76.09		
V::C55	S1-C55 Design, Assembly and Installation of Foundation Type A1-3 as per DS1-C55 Design, Assembly and Installation of Foundation Type A1-3 as per Dwg 505573-4622-42DD			\$ 44,266.30	6 \$	265,597.82
	NorthStar Price for Steel Piling Caps C55		\$ 40,516.11	\$ 40,516.11		
	Room and Board (day)	15		\$ 3,750.19		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	7.1		\$ -	\$ -		
	Total material Cost per Structure			\$ 44,266.30		
V::C56	S1-C56 Design, Assembly and Installation of Foundation Type A2-3 as per DS1-C56 Design, Assembly and Installation of Foundation Type A2-3 as per Dwg 505573-4622-42DD	Manhour Row:		\$ 44,266.30	0 \$	-
	NorthStar Price for Steel Piling Caps C56		\$ 40,516.11	\$ 40,516.11		
	Room and Board (day)	15	\$ 250.01 \$ -	\$ 3,750.19 \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure		\$ -	\$ - \$ 44,266.30		
V::C57	S1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per DS1-C57 Design, Assembly and Installation of Foundation Type A3-3 as per Dwg 505573-4622-42DD NorthStar Price for Steel Piling Caps C57	Manhour Row:		\$ 44,266.30 \$ 40,516.11	5 \$	221,331.52
	Room and Board (day)	15		\$ 3,750.19		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 44,266.30		
V::C58	S1-C58 Design, Assembly and Installation of Foundation Type A4-3 as per D)wa 505573-46	Unit Cost:	\$ 44,266.30	0.5	-
	S1-C58 Design, Assembly and Installation of Foundation Type A4-3 as per Dwg 505573-4622-42DD	Manhour Row:				
	NorthStar Price for Steel Piling Caps C58 Room and Board (day)	1 15	\$ 40,516.11 \$ 250.01	\$ 40,516.11 \$ 3,750.19		
	Toolii aliu boalu (uay)	13	\$ -	\$ 3,730.19		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure			\$ 44,266.30		
V::C59	S1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per DS1-C59 Design, Assembly and Installation of Foundation Type B1-3 as per Dwg 505573-4622-42DD		Unit Cost:	\$ 44,266.30	1 \$	44,266.30
	NorthStar Price for Steel Piling Caps C59		\$ 40,516.11	\$ 40,516.11		
	Room and Board (day)	15		\$ 3,750.19		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total material Coot you Structure		\$ -	\$ - \$ 44,266.30		
	Total material Cost per Structure			\$ 44,266.30		
V::C60	S1-C60 Design, Assembly and Installation of Foundation Type B2-3 as per D31-C60 Design, Assembly and Installation of Foundation Type B2-3 as per Dwg 505573-4622-42DD	Manhour Row:		\$ 208,457.28	0 \$	•
	NorthStar Price for Steel Piling Caps C60 Room and Board (day)	1 80		\$ 188,456.25 \$ 20,001.03		
	Toolia (da)	- 00	\$ 250.01	\$ -		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
	Total meterial Cost was Structure		\$ -	\$ -		
	Total material Cost per Structure		<u> </u>	\$ 208,457.28	<u> </u>	
V::C61	S1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per DS1-C61 Design, Assembly and Installation of Foundation Type C1-3 as per Dwg 505573-4622-42DD	Manhour Row:		\$ 208,457.28	4 \$	833,829.12
	NorthStar Price for Steel Piling Caps C61 Room and Board (day)	1 80	\$ 188,456.25 \$ 250.01	\$ 188,456.25 \$ 20,001.03		
	incom and board (day)	80	\$ 250.01	\$ 20,001.03		
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
	Total material Cost per Structure		Ψ -	\$ 208,457.28		
				,		

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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::C62	S1-C62 Design, Assembly and Installation of Foundation Type C2-3 as per I	Dwg 505573-46	Unit Cost:	\$ 208,457.28	0 \$ -
	S1-C62 Design, Assembly and Installation of Foundation Type C2-3 as per Dwg 505573-4622-42DI				1
	NorthStar Price for Steel Piling Caps C62 Room and Board (day)	80	\$ 188,456.25 \$ 250.01	\$ 188,456.25 \$ 20,001.03	
			\$ -	\$ -	
			\$ -	\$ -	_
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure		*	\$ 208,457.28	
V::C63	S1 C62 Decign Accomply and Installation of Foundation Type D1 2 per Duy	- E0EE72 4622	Unit Costs	\$ 208,457.28	4 \$ 833,829.12
VC03	S1-C63 Design, Assembly and Installation of Foundation Type D1-3 per Dwg S1-C63 Design, Assembly and Installation of Foundation Type D1-3 per Dwg 505573-4622-42DD-0		Offit Cost.	\$ 200,437.20	4 \$ 033,023.12
	NorthStar Price for Steel Piling Caps C63	1	\$ 188,456.25	\$ 188,456.25	
	Room and Board (day)	80	\$ 250.01 \$ -	\$ 20,001.03 \$ -	
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure		\$ -	\$ - \$ 208,457.28	
	Total material dost per diructure	<u>l</u>		φ 200,431.20	
V::C64	S1-C64 Design, Assembly and Installation of Foundation Type D2-3 as per I		Unit Cost:	\$ 208,457.28	0 \$ -
	S1-C64 Design, Assembly and Installation of Foundation Type D2-3 as per Dwg 505573-4622-42DI NorthStar Price for Steel Piling Caps C64		\$ 188,456.25	\$ 188,456.25	
	Room and Board (day)	80	\$ 250.01	\$ 20,001.03	
			-	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ 208,457.28	
V::C65	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per I	Dwg 505573-46	Unit Cost:	\$ 208,457.28	0 \$ -
	S1-C65 Design, Assembly and Installation of Foundation Type E1-3 as per Dwg 505573-4622-42DD				
	NorthStar Price for Steel Piling Caps C65 Room and Board (day)	80	\$ 188,456.25 \$ 250.01	\$ 188,456.25 \$ 20,001.03	
	room and board (day)	00	\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
	Total material Cost per Structure		*	\$ 208,457.28	
V::C66	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as pe	r the decign d	Unit Costs	\$ 468.58	480 \$ 224,920.37
VC00	S1-C66 Rock anchor to be installed with S1-C60 to S1-C65 item above as per the design drawings			400.30	400 \$ 224,320.37
	Guy Anchor in soil (/m)	1	\$ 431.08	\$ 431.08	→
	Room and Board (day)	0.15	\$ 25 0.01	\$ 37.50 \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	4
	Total material Cost per Structure		\$ -	\$ - \$ 468.58	1
V::C67	S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT S1-C67 Supply, and installation of H-Piles, HP 360 x 108, Grade 350AT	Manhour Row:	Unit Cost:	\$ 580.69	2400 \$ 1,393,654.41
	NorthStar Price for piles by LM		\$ 555.69	\$ 555.69	
	Room and Board (day)	0.1	\$ 250.01	\$ 25.00	
			\$ -	\$ -	-
			\$ -	\$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			\$ 580.69	
V::C68	S1-C68 Supply and Installation of Cribs for excavation protection of tower t		Unit Cost:	\$ 254.37	10700 \$ 2,721,742.95
	S1-C68 Supply and Installation of Cribs for excavation protection of tower types A1, A2, A3, A4, B1,		\$ 254.37	\$ 254.37	1
	Bolt a Plate Culvert (m^2)	1	\$ 254.37 \$ -	\$ 254.37 \$ -	
			\$ -	\$ -]
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	1
	Total material Cost per Structure			\$ 254.37	
V::C69	S1-C69 Transportation of native backfill		Unit Cost:	\$ -	2000 \$ -
	S1-C69 Transportation of native backfill	Manhour Row:			
	-		\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -]
			\$ -	\$ -	
			-	\$ -	4
			\$ -	\$ -	Į.
			\$ -	\$ -	
	Total material Cost per Structure				



	Waterial Summaries - by Structure					
	Description	QTY	Unit Price	Cost per item	Quantity To	tal
V::C70	S1-C70 Supply and transportation of approved fill from an alternate source/	processed ma	Unit Cost	\$ 106.61	21000 \$	2,238,705.00
	S1-C70 Supply and transportation of approved fill from an alternate source/processed material/road			100.01	2.000	2,200,100.00
	Screened Crushed Rock (Tonne)	2.25				
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -	-	
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ 106.61	_	
V::C71	S1-C71 Rock blasting/preparation		Unit Cost:	\$ -	1100 \$	
	S1-C71 Rock blasting/preparation					
			\$ -	\$ -		
			\$ - \$ -	\$ - \$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure			\$ -		
V::D01	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0" as per du	vg. 505573-462	Unit Cost:	\$	0 \$,
	S1-D1 Assembly and Erection of Suspension Tower Type "A1 + 0" as per dwg. 505573-4622-43DD-					
			-	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -/	\$ -		
	Total material Cost per Structure			-		
V::D02	S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per	dwg. 505573-4	Unit Cost:	\$ -	0 \$	
	S1-D2 Assembly and Erection of Suspension Tower Type "A1 + 1.5" as per dwg. 505573-4622-43D					
			\$ -	\$ -		
			\$ -	\$ - \$ -	-	
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost was Structure		\$ -	\$ - \$ -	-	
	Total material Cost per Structure					
V::D03	S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3" as per d	wg. 505573-46	Unit Cost:	\$ -	0 \$	-
	S1-D3 Assembly and Erection of Suspension Tower Type "A1 + 3" as per dwg. 505573-4622-43DD	-0042			T	
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -		
	Total material Cost per Structure		-	\$ - \$ -	-	
	Total material obst per otractare			1 4		
V::D04	S1-D4 Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per		Unit Cost:	\$ -	0 \$	-
	S1-D4 Assembly and Erection of Suspension Tower Type "A1 + 4.5" as per dwg. 505573-4622-43D	ט-0042	\$ -	\$ -		1
			\$ -	\$ -	1	
			\$ -	\$ -]	
			\$ -	\$ -	4	
			\$ -	\$ - \$ -	-	
	Total material Cost per Structure			\$ -		
V::D05	S1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per d		Unit Cost:	\$ -	88 \$	•
	S1-D5 Assembly and Erection of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD	-0042	\$ -	\$ -		
			\$ -	\$ -		
			\$ -	\$ -	1	
			\$ -	\$ -	4	
			\$ -	\$ - \$ -	1	
	Total material Cost per Structure			\$ -		
\/ F	24 20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			•		
V::D06	S1-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per	-	Unit Cost:	\$ -	39 \$	-
	S1-D6 Assembly and Erection of Suspension Tower Type "A1 + 7.5" as per dwg. 505573-4622-43D	rD-0042	\$ -	\$ -		
			\$ -	\$ -]	
			\$ -	\$ -	1	
			\$ - \$ -	\$ -	4	
			\$ -	\$ - \$ -	1	
	Total material Cost per Structure			\$ -	<u> </u>	
					•	

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	Description	QTY	Unit Price	Cost per item	Quantity Total
	Description	QII	Onit Frice	Cost per item	Quantity
V::D07	S1-D7 Assembly and Erection of Suspension Tower Type "A1 + 9" as per of		Unit Cost:	\$ -	45 \$ -
	S1-D7 Assembly and Erection of Suspension Tower Type "A1 + 9" as per dwg. 505573-4622-43DI	0-0042	\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	_
			\$ - \$ -	\$ - \$ -	╡ ///
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D08	S1-D8 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as pe	er dwg. 505573	Unit Cost:	\$ -	56 \$ -
	S1-D8 Assembly and Erection of Suspension Tower Type "A1 + 10.5" as per dwg. 505573-4622-45	3DD-0042			
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ -	
	Total material Cost per Structure		<u> </u>	\$ -	
/D00	C4 D0 Accombly and Exaction of Symposium Towar Type #A4 + 42# on new	dua E0EE72 /	l Unit Coot	\$ -	E7 6
V::D09	S1-D9 Assembly and Erection of Suspension Tower Type "A1 + 12" as per S1-D9 Assembly and Erection of Suspension Tower Type "A1 + 12" as per dwg. 505573-4622-43D		Unit Cost:	\$ -	57 \$ -
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ -	
V::D10	S1-D10 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as p		': Unit Cost:	\$ -	63 \$ -
	S1-D10 Assembly and Erection of Suspension Tower Type "A1 + 13.5" as per dwg. 505573-4622-4	43DD-0042	\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	_
			\$ -	\$ -	-
			\$ -	-	
	Total material Cost per Structure				
				-	
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe	r dwg. 505573	- Unit Cost:	\$ -	81 \$ -
V::D11				\$ -	81 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe		- Unit Cost:	\$ -	81 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe		\$ - \$ - \$ -	\$ - \$ - \$ -	81 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe		\$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	81 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe		\$ - \$ - \$ -	\$ - \$ - \$ -	81 \$ -
V::D11	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe		\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	81 \$ -
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure	DD-0042	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	81 \$ - - - - - - - - - - - - - - - - - - -
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D11 V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure	DD-0042	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-4	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ -	77 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-4	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$	77 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-4	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ -	77 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-4	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 S1-D12 Assembly and Erection of Suspension. Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as pe S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-4	DD-0042 Deer dwg. 505573 SDD-0042 r dwg. 505573	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure Total material Cost per Structure	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -
V::D12 V::D13	S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per S1-D11 Assembly and Erection of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D12 Assembly and Erection of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43 Total material Cost per Structure S1-D13 Assembly and Erection of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43	DD-0042 Der dwg. 505573 DD-0042 dwg. 505573-d	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	77 \$ -

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	Description	QTY	Unit Price	Cost per item	Quantity Total
	Description	Q I I	Office Price	Cost per item	Quantity
V::D15	S1-D15 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as po			-	0 \$ -
	S1-D15 Assembly and Erection of Suspension Tower Type "A2 + 1.5" as per dwg. 505573-4622-45	3 Mannour Row	/: \$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D16	S1-D16 Assembly and Erection of Suspension Tower Type "A2 + 3" as per	dwg. 505573-4	Unit Cost:	\$ -	0 \$ -
	S1-D16 Assembly and Erection of Suspension Tower Type "A2 + 3" as per dwg. 505573-4622-43E		r:		
			\$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	-
	Total material Cost per Structure			\$ -	
V::D17	S1 D17 Accombly and Fraction of Supposion Tower Type "A2 + 4.5" as n	ordwa E0EE73	Linit Cost	\$ -	0 \$ -
V::D17	S1-D17 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as por S1-D17 Assembly and Erection of Suspension Tower Type "A2 + 4.5" as per dwg. 505573-4622-4;			a	0 \$ -
	, , , , , , , , , , , , , , , , , , , ,		\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ -	
V::D18	S1-D18 Assembly and Erection of Suspension Tower Type "A2 + 6" as per			\$ -	0 \$ -
	S1-D18 Assembly and Erection of Suspension Tower Type "A2 + 6" as per dwg. 505573-4622-43E	Manhour Row	/: \$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	4
			\$ -	\$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D19	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as po	er dwg. 505573	3- Unit Cost:	\$ -	0 \$ -
V::D19	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as pt S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-49		r:		0 \$ -
V::D19				\$ -	0 \$ -
V::D19			\$ - \$ - \$ -	\$ - \$ - \$ -	0 \$ -
V::D19			\$ - \$ - \$ -	\$ - \$ - \$ -	0 \$ -
V::D19			\$ - \$ - \$ -	\$ - \$ - \$ -	0 \$ -
V::D19			\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ -
	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4; Total material Cost per Structure	3 Manhour Row	S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4;	3 Manhour Row	** - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D19	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per	3 Manhour Row	### Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per	3 Manhour Row	** - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per	3 Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per	3 Manhour Row	# Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per	3 Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D20	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure Total material Cost per Structure	dwg. 505573-4	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435	dwg. 505573-4 dwg. 505573-4 dwg. 505573-4	# Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D20	S1-D19 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure Total material Cost per Structure	dwg. 505573-4 dwg. 505573-4 dwg. 505573-4	### Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435	dwg. 505573-4 dwg. 505573-4 dwg. 505573-4	# Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435	dwg. 505573-4 dwg. 505573-4 dwg. 505573-4	### Unit Cost: \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435	dwg. 505573-4 dwg. 505573-4 dwg. 505573-4	### Unit Cost: ### Unit Cost: ### Unit Cost: ### Unit Cost: ### Unit Cost: ### Unit Cost: ### Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20	S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-435 Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-435 S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-435 S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-435 S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-435	dwg. 505573-4 dwg. 505573-4 dwg. 505573-4	## Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20 V::D21	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43C Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43C Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43C Total material Cost per Structure Total material Cost per Structure	dwg. 505573-d beer dwg. 505574 4 Manhour Row	## Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E	dwg. 505573-dwg. 505573-4 Manhour Row	## Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20 V::D21	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43C Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43C Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43C Total material Cost per Structure Total material Cost per Structure	dwg. 505573-dwg. 505573-4 Manhour Row	## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D20 V::D21	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E	dwg. 505573-dwg. 505573-4 Manhour Row	## Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20 V::D21	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E	dwg. 505573-dwg. 505573-4 Manhour Row	## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D20 V::D21	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E	dwg. 505573-dwg. 505573-4 Manhour Row	## Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20 V::D21	Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 12" as per dwg. 505573-4622-43E	dwg. 505573-dwg. 505573-4 Manhour Row	## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost: ## Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D20 V::D21	S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-45 Total material Cost per Structure S1-D20 Assembly and Erection of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D21 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E Total material Cost per Structure S1-D22 Assembly and Erection of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43E	dwg. 505573-dwg. 505573-4 Manhour Row	# Unit Cost: # Unit Cost:	\$ - \$ - \$ - \$ \$ -	0 \$ -



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D23	S1-D23 Assembly and Erection of Suspension Tower Type "A2 + 13.5" as p	er dwa 50557	· Unit Cost·	\$ -	0 \$ -
VD23	S1-D23 Assembly and Erection of Suspension Tower Type "A2 + 13.5" as per dwg. 505573-4622-4				-
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
	Total material Cost per Structure			\$ -	
V::D24	S1-D24 Assembly and Erection of Suspension Tower Type "A2 + 15" as per	r dwg. 505573-	· Unit Cost:	\$ -	0 \$ -
	S1-D24 Assembly and Erection of Suspension Tower Type "A2 + 15" as per dwg. 505573-4622-430				
			\$ - \$ -	\$ - \$ -	-
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D25	S1-D25 Assembly and Erection of Suspension Tower Type "A2 + 16.5" as p			\$	0 \$
	S1-D25 Assembly and Erection of Suspension Tower Type "A2 + 16.5" as per dwg. 505573-4622-4	Manhour Row	-	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	-
			\$ -/	\$ -	
	Total material Cost per Structure			-	
V::D26	S1-D26 Assembly and Erection of Suspension Tower Type "A2 + 18" as per			\$ -	0 \$ -
	S1-D26 Assembly and Erection of Suspension Tower Type "A2 + 18" as per dwg. 505573-4622-430	Manhour Row	\$ -	\$ -	
			\$ -	\$ -	-
			\$ -	\$ -	
			\$ - \$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ - \$ -	
			\$ -	\$ -	-
			\$ -	\$ -	
	Total material Cost per Structure			-	
V::D27	S1-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as pe			\$ -	0 \$ -
	S1-D27 Assembly and Erection of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-45	Manhour Row	\$ -	\$ -	
			\$ -	\$ -]
			\$ -	\$ - \$ -	
			\$ -	\$ -	-
			\$ -	\$ -	
			\$ -	\$ - \$ -	-
			\$ -	\$ -]
	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material cost per structure	L	I	-	
V::D28	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per c			\$ -	110 \$ -
	S1-D28 Assembly and Erection of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DD	IVIAIIIIOUF KOW	\$ -	\$ -	1
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V::D30 S1-D30 Assembly and Erection of Suspension Tower Type "A3 + 3" as per dwg, 505573-4 Unit Cost: \$
St-030 Assembly and Erection of Suspension Tower Type 'V3 + 3' as per dag, 505573-4022430 Manhour Row.
St-030 Assembly and Erection of Suspension Tower Type 'V3 + 3' as per dag, 505573-4022430 Manhour Row.
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Total material Cost per Structure
V::D31 S1-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per dwg, 505573-4022-43 Marthour Row; \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
St-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per dwg. 505573-4622-43 Manhour Row: S
St-D31 Assembly and Erection of Suspension Tower Type "A3 + 4.5" as per dwg. 505573-4622-43 Manhour Row: S
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V::D32 S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-43DI Manhour Row: S
V::D32 S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4 Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4 Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4 Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-462-43D Marihou'r Row: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-462-43D Marihou'r Row: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-40 Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 50557
V::D32 S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4" Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4" Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4" Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4" Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4" Unit Cost: S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4" Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost: S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573- Unit Cost:
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V::D32 S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4 Unit Cost: \$ - 44 \$ S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-43DI Manhour Row: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -
S1-D32 Assembly and Erection of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-43DI Manhour Row: S
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V::D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573. Unit Cost: \$ - 45 \$
Total material Cost per Structure \$ - V::D33 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573. Unit Cost: \$ - 45 \$
V::D33 S1-D33 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 505573. Unit Cost:
S1-D53 Assembly and Erection of Suspension Tower Type "A3 + 7.5" as per dwg. 5055/3-4622-43 IVIAINOUT KOW:
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V::D34 S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4 Unit Cost: \$ - 30 \$
S1-D34 Assembly and Erection of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-43DIManhour Row:
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D35	S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as p			\$ -	32 \$ -
	S1-D35 Assembly and Erection of Suspension Tower Type "A3 + 10.5" as per dwg. 505573-4622-4	Manhour Row		-	1
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	Total material Cost per Structure			\$ -	
V::D36	S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 12" as per			-	24 \$ -
	S1-D36 Assembly and Erection of Suspension Tower Type "A3 + 12" as per dwg. 505573-4622-431	Manhour Row			
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	Total material Cost per Structure			-	
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V::D37	S1-D37 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as p			\$ -	22 \$ -
	S1-D37 Assembly and Erection of Suspension Tower Type "A3 + 13.5" as per dwg. 505573-4622-4	wiannouf Row			-
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VD20	C4 D20 Accombly and Fraction of Symmotop Tower Type #A2 + 45# on no	- due 505572	Unit Cont.	\$ -	27 6
V::D38	S1-D38 Assembly and Erection of Suspension Tower Type "A3 + 15" as per S1-D38 Assembly and Erection of Suspension Tower Type "A3 + 15" as per dwg. 505573-4622-431			\$	27 \$ -
	S1-D36 Assembly and Erection of Suspension Tower Type A3 + 15 as per dwg. 505573-4622-431				
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	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$ -
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V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ \$ 5 - \$ - \$	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	13 \$ -
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V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4	er dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p	er dwg. 50557	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ \$	13 \$ -
V::D39	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4	er dwg. 50557 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ \$	13 \$ -
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4	er dwg. 50557 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ \$	
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	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
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	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	S	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as p S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per of	er dwg. 50557 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
	S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 S1-D39 Assembly and Erection of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-4 Total material Cost per Structure S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43DI S1-D40 Assembly and Erection of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43DI	er dwg. 50557 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
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Description QTY Unit Price Cost per item	
V D44	Quantity Total
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V::D41 S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per dwg. 505573. Unit Cost:	0 \$ -
S1-D41 Assembly and Erection of Suspension Tower Type "A4 + 1.5" as per dwg. 505573-4622-43 Manhour Row:	
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V::D42 S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4 Unit Cost:	0 \$
S1-D42 Assembly and Erection of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DI Manhour Row:	
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V::D43 S1-D43 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as per dwg. 505573. Unit Cost:	0 \$ -
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S1-D43 Assembly and Erection of Suspension Tower Type "A4 + 4.5" as per dwg. 505573-4622-43 Manhour Row:	
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V::D44 S1-D44 Assembly and Erection of Suspension Tower Type "A4 + 6" as per dwg. 505573-4 Unit Cost:	0 6
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S1-D44 Assembly and Erection of Suspension Tower Type "A4 + 6" as per dwg. 505573-4622-43DI Manhour Row:	
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V::D45 S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S - S - S - S - S - S - S - S - S - S	0 \$ -
V::D45 S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43 Manhour Row: S	0 \$ -
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V::D45 S1-D45 Assembly and Erection of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4 Unit Cost: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	0 \$ -
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\$1-D47 Assembly and Erection of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-4 Manhour Row: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Total
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Total material Cost per Structure \$ -	
V::D48 S1-D48 Assembly and Erection of Suspension Tower Type "A4 + 12" as per dwg. 505573- Unit Cost:	0 \$ -
S1-D48 Assembly and Erection of Suspension Tower Type "A4 + 12" as per dwg. 505573-4622-43t Manhour Row:	
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Total material cost per structure	
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Total material Cost per Structure \$ -	
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V::D50 S1-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per dwg. 505573- Unit Cost: S1-D50 Assembly and Erection of Suspension Tower Type "A4 + 15" as per dwg. 505573-4622-43[Manhour Row:	<mark>0</mark> \$ -
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V::D51 S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 50557: Unit Cost: S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-4 Manhour Row:	
V::D51 S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 50557: Unit Cost: S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-4 Manhour Row: \$ - \$ - \$	
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V::D51 S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 50557: Unit Cost: S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-4 Manhour Row: S	
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V::D51 S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 50557: Unit Cost: S1-D51 Assembly and Erection of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-4 Manhour Row:	
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D53	S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as p	er dwg. 50557	: Unit Cost:	\$ -	0 \$ -
	S1-D53 Assembly and Erection of Suspension Tower Type "A4 + 19.5" as per dwg. 505573-4622-4	Manhour Row	:	-	T
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V::D54	S1-D54 Assembly and Erection of Suspension Tower Type "B1 + 0" as per of S1-D54 Assembly and Erection of Suspension Tower Type "B1 + 0" as per dwg, 505573-4622-43DI			-	0 \$
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V::D55	S1-D55 Assembly and Erection of Suspension Tower Type "B1 + 1.5" as per S1-D55 Assembly and Erection of Suspension Tower Type "B1 + 1.5" as per dwg. 505573-4622-43			\$ -	0 \$ -
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V::D56	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per	dua 505572 A	L Unit Coots	\$ -	0 \$ -
VD36	S1-D56 Assembly and Erection of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43D			3	U \$ -
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V::D57	S1-D57 Assembly and Erection of Suspension Tower Type "B1 + 4.5" as pe	r dwa 505573	Linit Cost:	\$ -	0 \$ -
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V::D58	S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per			\$ -	0 \$ -
	S1-D58 Assembly and Erection of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-43D	Manhour Row	:	-	
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D59	S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as p	er dwg. 505573	Unit Cost:	\$ -	0 \$ -
	S1-D59 Assembly and Erection of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-4	Manhour Row			
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	S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per S1-D60 Assembly and Erection of Suspension Tower Type "B1 + 9" as per dwg. 505573-4622-43E			-	0 \$ -
	31-Doo Assembly and Election of Suspension Tower Type B1 + 9 as per dwg. 505575-4022-45L	Divianinoui 10W	-	\$ -	
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	Total material Cost per Structure		\$ -	\$ -	
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V::D61	S1-D61 Assembly and Erection of Suspension Tower Type "B1 + 10.5" as	per dwg. 50557	Unit Cost:	\$ -	0 \$ -
	S1-D61 Assembly and Erection of Suspension Tower Type "B1 + 10.5" as per dwg. 505573-4622-				
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	S1-D62 Assembly and Erection of Suspension Tower Type "B1 + 12" as pe			\$ -	11 \$ -
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V::D63	Total material Cost per Structure S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
V::D63	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as		\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
V::D63	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
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V::D63	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as		Unit Cost:	\$ - \$ - \$ - \$ \$ -	2 \$ -
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V::D63	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-	4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ \$ -	
V::D63 V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per	4 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	2 \$ -
V::D63 V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-	4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D63 V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per	4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
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V::D63 V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per	4 Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
V::D63 V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per	4 Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D63 V::D64	S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as S1-D63 Assembly and Erection of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622- Total material Cost per Structure S1-D64 Assembly and Erection of Suspension Tower Type "B1 + 15" as per	4 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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Description	1	QTY	Unit Price	Cost per item	Quantity Total
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	sembly and Erection of Suspension Tower Type "B1 + 16.5" as			\$ -	5 \$ -
S1-D65 Assem	ably and Erection of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622	-4 Manhour Rov			
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V::D66 S1-D66 Ass	sembly and Erection of Suspension Tower Type "B1 + 18" as p	er dwg. 505573	B- Unit Cost:	\$ -	3 \$ -
	ably and Erection of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-			•	
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S1-D67 Assem	ably and Erection of Suspension Tower Type "B1 + 19.5" as per dwg. 505573-4622	43 Manhour Roy			*
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	sembly and Frection of Suspension Tower Type "R1 + 21" as n	er dwg 505573	-4 Unit Cost:		3 \$ -
V::D68 S1-D68 Ass	sembly and Erection of Suspension Tower Type "B1 + 21" as p			\$ -	3 \$ -
V::D68 S1-D68 Ass	sembly and Erection of Suspension Tower Type "B1 + 21" as p hbly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4		v:	\$ -	3 \$ -
V::D68 S1-D68 Ass				\$ -	3 \$ -
V::D68 S1-D68 Ass			v: -	\$ - \$ - \$ -	3 \$ -
V::D68 S1-D68 Ass			v:	\$ - \$ - \$ -	3 \$ -
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V::D68 S1-D68 Ass			V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	3 \$ -
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V::D68 S1-D68 Ass			V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D68 S1-D68 Assem			V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D68 S1-D68 Assem	rial Cost per Structure	SD Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$	
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - 5 \$ - 5	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	v:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assem Total mater V::D69 S1-D69 Ass	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4	per dwg. 50555	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
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V::D68 S1-D68 Asserr Total mater V::D69 S1-D69 Asserr Total mater	rial Cost per Structure Sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 Sembly and Erection of Suspension Tower Type "B1 + 22.5" as abily and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 Trial Cost per Structure	per dwg. 5055743 Manhour Rov	V:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	4 \$ -
V::D68 S1-D68 Assert Total mater V::D69 S1-D69 Assert Total mater V::D70 S1-D70 Assert	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assert Total mater V::D69 S1-D69 Assert Total mater V::D70 S1-D70 Assert	rial Cost per Structure Sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 Sembly and Erection of Suspension Tower Type "B1 + 22.5" as abily and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 Trial Cost per Structure	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	4 \$ -
V::D68 S1-D68 Assert Total mater V::D69 S1-D69 Assert Total mater V::D70 S1-D70 Assert	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
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V::D68 S1-D68 Assert Total mater V::D69 S1-D69 Assert Total mater V::D70 S1-D70 Assert	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Assert Total mater V::D69 S1-D69 Assert Total mater V::D70 S1-D70 Assert	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Asserr Total mater V::D69 S1-D69 Asserr	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-4 bly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 fial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 fial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-4 bly and Erection of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-4	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -
V::D68 S1-D68 Asserr Total mater V::D69 S1-D69 Asserr	rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-4 sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622 rial Cost per Structure sembly and Erection of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622	per dwg. 505573	V:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	4 \$ -



Description	QTY	Unit Price	Cost per item	Quantity Total
V::D71 S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 25.5"			\$	- 0 \$ -
S1-D71 Assembly and Erection of Suspension Tower Type "B1 + 25.5" as per dwg. 505573-	-4622-43 Manhour Ro	DW:		
		\$ -		<u>- </u>
		\$ -		<u>- </u>
		\$ -		<u>- </u>
		\$ -		-
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		\$ -	\$	
		\$ -	\$	-
		\$ -	\$	-
Total material Cost per Structure			\$	
•				
V::D72 S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" a	as per dwg. 50557	3-4 Unit Cost:	\$	- 16 \$ -
S1-D72 Assembly and Erection of Suspension Tower Type "B1 + 27" as per dwg. 505573-46	622-43D Manhour Ro	DW:		
		\$ -		-
		\$ -		-
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		\$ -		
		\$ -	_	-
Total material Cost per Structure			\$	-
V::D73 S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Ba			\$	- 0 \$ -
S1-D73 Assembly and Erection of Medium Angle Tower Type "B2" Basic Body as per dwg. 5	505573-Manhour Ro			
		\$ -	_	-
		\$ -	\$	-
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4		\$ -	\$	-
		\$ -	\$	-
Total material Cost per Structure			\$	-
V::D74 S1-D74 Assembly and Erection of +4.5 m body extension for Medium			\$	- 0 \$ -
V::D74 S1-D74 Assembly and Erection of +4.5 m body extension for Medium S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2		ow:		- 0 \$ -
		ow:	\$	- 0 \$ -
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		w:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
		S - S - S - S - S - S - S - S - S - S -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
		w:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure	≥* as per Manhour Re	DW: S - S - S - S - S - S - S - S - S - S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S - S - S - S - S - S - S - S - S - S -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure	as per Manhour Re	S - S - S - S - S - S - S - S - S - S -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S - S - S - S - S - S - S - S - S - S -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	w:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S - S - S - S - S - S - S - S - S - S -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	w:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	w:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B	as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium	as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure	n Angle Tower Typ 32" as pe Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type *B2 Total material Cost per Structure	n Angle Tower Type as per Manhour Re	DW: S - S - S - S - S - S - S - S - S - S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: S - S - S - S - S - S - S - S - S - S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	S	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "B" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle	n Angle Tower Type as per Manhour Re	DW: \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
S1-D74 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "B2" Total material Cost per Structure V::D75 S1-D75 Assembly and Erection of +10.5 m body extension for Medium S1-D75 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type "E" Total material Cost per Structure V::D76 S1-D76 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "E"	n Angle Tower Type as per Manhour Re	DW: \$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	



	Description	QTY	Unit Price	Cost per item	Quantity Total
					
V::D77	S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle			-	0 \$ -
	S1-D77 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "B2" as per	dManhour Row	<i>I</i> :		
			\$ -	\$ -	
			\$ -	\$ -	
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			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D78	S1-D78 Assembly and Erection of +3 m leg extension for Medium Angle To	wer Type "B2"	Unit Cost:	\$ -	0 \$ -
	S1-D78 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "B2" as per of				
	, , , , , , , , , , , , , , , , , , , ,		\$ -	\$ -	
			\$ -	\$ -	
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	Total material Cost per Structure		\$ -		
	Total material Cost per Structure	<u> </u>	1	-	
VD70	C4 D70 Accombly and Exaction of .4 E m law control of the late.	Fower Tree - ""	2 Unit Coot	\$ -	0.0
V::D79	S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle			-	0 \$ -
	S1-D79 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "B2" as per	awannour Row		•	
			\$ -	\$ -	
			\$ -	\$ -	
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	A		\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle To	ower Type "B2"	' Unit Cost:	\$ -	0 \$ -
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle To S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of			\$ -	0 \$ -
V::D80				\$ -	0 \$ -
V::D80			<i>I</i> :		0 \$ -
V::D80			/: \$ -	\$ -	0 \$ -
V::D80			/: \$ - \$ -	\$ -	0 \$ -
V::D80			\$ - \$ - \$ -	\$ - \$ - \$	0 \$ -
V::D80			\$ - \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ -
V::D80			/: \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$ -
V::D80			\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D80				\$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D80			/: \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D80			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D80	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per c	w Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	/: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per c	w Manhour Row	/: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	/: \$ - \$ - \$ \$ \$ \$ \$ \$ \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	/: \$ - \$	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	S	\$ - \$ - \$ - \$ - \$	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	/: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the second of the se	w Manhour Row	S	\$ - \$ - \$ - \$ \$ -	
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per comparison of the material Cost per Structure Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per comparison of the material Cost per Structure Total material Cost per Structure	w Manhour Row		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per comparison of the material Cost per Structure Total material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per comparison of the material Cost per Structure Total material Cost per Structure	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per comparison of the material Cost per Structure S1-D81 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "B2" as per comparison of the material Cost per Structure Total material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per Structure S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per S1-D82 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "B2" as per control of the material Cost per S1-D82 Assembly and Erection of +9 m leg	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D81	S1-D80 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "B2" as per of the state of th	w Manhour Row Tower Type "B d Manhour Row wer Type "B2"	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -

Valard

Description	QTY	Unit Price	Cost per item	Quantity Total
D83 S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" I	Basic Body as per d	wg Unit Cost:	\$ -	72 \$
S1-D83 Assembly and Erection of Medium Angle Tower Type "C1" Basic Body as per dw	g. 505573- Manhour Ro	s -	\$ -	ı
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	-
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	-
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	
Total material Cost per Structure		-	\$ -	
D84 S1-D84 Assembly and Erection of +4.5 m body extension for Mediun	m Angle Tower Type	"(Unit Cost:	\$ -	14 \$
S1-D84 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type	"C1" as per Manhour Ro	s -	\$ -	
		\$ -	\$ -	
		\$ - \$	\$ - \$ -	
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	
		\$ -	\$ - \$ -	
		\$ -	\$ -	
Total material Cost per Structure		\$ -	\$ - \$ -	
85 S1-D85 Assembly and Erection of +10.5 m body extension for Mediu	um Angle Tower Tyr	e ' Unit Cost	\$ -	15 \$
S1-D85 Assembly and Erection of +10.5 m body extension for Medium Angle Tower Type		ow:		10 \$
		\$ -	\$ - \$ -	
		\$ -	\$ -	
		\$ - \$ -	\$ - \$ -	
		\$ -	\$ -	
		\$ -	\$ - \$ -	-
		\$ -	\$ -	
Total material Cost per Structure		\$ -		-
			C	
			-	
D86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A			\$ -	0 \$
		ow:	\$ -	0 \$
D86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A		ow:	\$ -	0 \$
D86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A		s - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	0 \$
D86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A		\$ - \$ - \$ -	\$ - \$ - \$ -	0 \$
D86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
D86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A		W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1"		W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
86 S1-D86 Assembly and Erection of +0 m leg extension for Medium A		w:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W: \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium	as per dw Manhour Ro	W: \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure Total material Cost per Structure	Angle Tower Type "	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure Total material Cost per Structure	Angle Tower Type "C1" as per c Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" S1-D87 Assembly and Erection of +1.5 m leg extension for Medium S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1"	Angle Tower Type "C1" as per c Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1"	Angle Tower Type "C1" as per c Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" S1-D87 Assembly and Erection of +1.5 m leg extension for Medium S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1"	Angle Tower Type "C1" as per c Manhour Ro	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Angle Tower Angle Tower Angle Tower Angle Tower Angle Tower Angle Tower Angle Tower Angle Tower Type "C1" Total material Cost per Structure	Angle Tower Type "C1" as per c Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
S1-D86 Assembly and Erection of +0 m leg extension for Medium Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" S1-D87 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C1" Total material Cost per Structure Total material Cost per Structure S1-D88 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C1"	Angle Tower Type "C1" as per c Manhour Ro	W:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D89	S1-D89 Assembly and Erection of +4.5 m leg extension for Medium Angle T			-	24 \$ -
	S1-D89 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C1" as per	Manhour Row	r:		
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V::D90	S1-D90 Assembly and Erection of +6 m leg extension for Medium Angle Tov	ver Type "C1"	Unit Cost:	\$ -	60 \$ -
	S1-D90 Assembly and Erection of +6 m leg extension for Medium Angle Tower Type "C1" as per dw			—	
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	Total material Cost per Structure	<u> </u>	<u> </u>	-	
VD04	S1-D01 Accomply and Fraction of 17 5 m los outencies for Medium Aural- T	ower Turn IIO	1 Unit Coot	\$ -	68 \$ -
V::D91	S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle To S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection of +7.5 m leg extension for Medium Angle Tower Type "C1" as per of the S1-D91 Assembly and Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Tower Type "C1" as per of the Erection for Medium Angle Type "C1" as per of the Erection for Medium Angle Type "C1" as per of the Erect			-	68 \$ -
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	Total material Cost per Structure			\$ -	7
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V::D92	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tov			\$ -	68 \$ -
V::D92	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tov S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dw			\$ -	68 \$ -
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V::D92	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ -
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V::D92 V::D93	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Bo	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	68 \$ -
	S1-D92 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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	S1-D93 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dv Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Body as per dwg. 505573-	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::D93	S1-D93 Assembly and Erection of +9 m leg extension for Medium Angle Tower Type "C1" as per dw Total material Cost per Structure S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Both S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Both S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Both S1-D93 Assembly and Erection of Medium Angle Tower Type "C2" Basic Both S1-D93 Assembly and Erection of Hedium Angle Tower Type "C2" Basic Both S1-D93 Assembly and Erection of +4.5 m body extension for Medium Angle Tower Type "C1" as per dwg.	ody as per dwy Manhour Row Manhour Row Tower Type "	G Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -

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	Description	QTY	Unit Price	Cost per item	Quantity Total
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V::D95	S1-D95 Assembly and Erection of +10.5 m body extension for Medium Angle			\$ -	0 \$ -
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V::D96	S1-D96 Assembly and Erection of +0 m leg extension for Medium Angle Tov			-	0 \$ -
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V::D97	S1-D97 Assembly and Erection of +1.5 m leg extension for Medium Angle To	ower Type "C	2 Unit Cost:	\$ -	0 \$ -
	S1-D97 Assembly and Erection of +1.5 m leg extension for Medium Angle Tower Type "C2" as per of				
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VD00	\$1 D09 Accombly and Erection of 12 m log extension for Medium Apple Toy	war Tuna "Ca	Linit Coots	¢	0 ¢
V::D98	S1-D98 Assembly and Erection of +3 m leg extension for Medium Angle Tov			\$ -	0 \$ -
V::D98	S1-D98 Assembly and Erection of +3 m leg extension for Medium Angle Tov S1-D98 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw		v:		0 \$ -
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V::D98 V::D99	S1-D98 Assembly and Erection of +3 m leg extension for Medium Angle Tower Type "C2" as per dw Total material Cost per Structure S1-D99 Assembly and Erection of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dw	Manhour Rov	/: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
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Yi:D102 St-0102 Assembly and Exection of +9 in leg esteeds for New Type *C2* Use Cost:						-
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W::D104 W::D105 S. 1019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 Unit Cest: \$1 019 Assembly and Exection of 4.6.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 unit Cest: \$1 019 Assembly and Exection of 4.0.5 in body extension for Dead-End Tower Type: D14 un	V::D102	S1-D102 Assembly and Erection of +9 m leg extension for Medium Angle To	ower Type "C2	' Unit Cost:	\$ -	0 \$ -
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Si-D103 Secondly and Erection of Dead-End Tower Type "D1" Basic Body as par dwg. 5f. Unit Cost: \$ 86 \$ \$ \$ \$ \$ \$ \$ \$ \$		Total material Cost per Structure		φ -		-
S-1-0103 Assembly and Exection of -010-5 m looply extension for Dead-End Tower Type **D1* base body as per owg \$05537-4ct. Marhour Rove.** S		Total material Cost per Structure	<u> </u>		1 4	
S-1-0103 Assembly and Exection of -010-5 m looply extension for Dead-End Tower Type **D1* base body as per owg \$05537-4ct. Marhour Rove.** S	VD103	S1-D103 Assembly and Frection of Dead-End Tower Type "D1" Regio Pedu	as ner dwa E	(Unit Cost:	\$	86 \$
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V::D107	S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower S1-D107 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg			-	0 \$ -
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V::D108	S1-D108 Assembly and Erection of +3 m leg extension for Dead-End Tower S1-D108 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "D1" as per dwg.			-	84 \$ -
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V::D109	S1-D109 Assembly and Erection of +4.5 m leg extension for Dead-End Tower S1-D109 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg			-	24 \$ -
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V::D110	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower			\$ -	92 \$ -
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V::D110 V::D111	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type *D1* as per dwg. Total material Cost per Structure S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	92 \$ -
	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type *D1* as per dwg. Total material Cost per Structure	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type *D1* as per dwg. Total material Cost per Structure S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type *D1* as per dwg. Total material Cost per Structure S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::D111	S1-D110 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. Total material Cost per Structure S1-D111 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. Total material Cost per Structure Total material Cost per Structure Total material Cost per Structure S1-D112 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D1" as per dwg.	er Type "D1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	60 \$ -

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	escription	QTY	Unit Price	Cost per item	Quantity Total
V::D113 S1-	I-D113 Assembly and Erection of Dead-End Tower Type "D2" Basic Body	as per dwg. 5	Unit Cost:	\$ -	0 \$ -
S1-E	-D113 Assembly and Erection of Dead-End Tower Type "D2" Basic Body as per dwg. 505573-46	Manhour Row	:	-	I
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	-D114 Assembly and Erection of +4.5 m body extension for Dead-End To -D114 Assembly and Erection of +4.5 m body extension for Dead-End Tower Type "D2" as per d			-	0 \$ -
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<u> </u>	I-D115 Assembly and Erection of +10.5 m body extension for Dead-End T	ower Type "D	2 Unit Cost:	\$ -	0 \$
	-D115 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "D2" as per				
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V::D116 S1-	I-D116 Assembly and Erection of +0 m leg extension for Dead-End Tower	Typo "D2" as	Linit Cost	\$ -	0 \$ -
	-D116 Assembly and Erection of +0 m leg extension for Dead-End Tower Type "D2" as per dwg.			Ψ -	
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	otal material Cost per Structure		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D117 S1-	otal material Cost per Structure I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower -D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ \$	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ \$	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town -D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D117 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Towe		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D117 S1- S1-E Tot V::D118 S1-	I-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Town -D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dw	gManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	0 \$ -
V::D117 S1- S1- S1- Tot V::D118 S1-	P-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg D118 Assembly and Erection of +3 m leg extension for Dead-End Tower D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	gManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ \$	
V::D117 S1- S1- S1- Tot V::D118 S1-	P-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg D118 Assembly and Erection of +3 m leg extension for Dead-End Tower D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	gManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ \$	
V::D117 S1- S1- S1- Tot V::D118 S1-	P-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwe D118 Assembly and Erection of +3 m leg extension for Dead-End Tower D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	gManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	
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V::D117 S1- S1-E Tot V::D118 S1-	P-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwe D118 Assembly and Erection of +3 m leg extension for Dead-End Tower D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	gManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
V::D117 S1- S1-E Tot V::D118 S1-	P-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwe D118 Assembly and Erection of +3 m leg extension for Dead-End Tower D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	gManhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ \$	
V::D117 S1-	P-D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower D117 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwe D118 Assembly and Erection of +3 m leg extension for Dead-End Tower D118 Assembly and Erection of +3 m leg extension for Dead-End Tower	gManhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	

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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::D119	S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Towo	er Type "D2" a	: Unit Cost	\$ -	0 \$ -
VD113	S1-D119 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg			Ψ -	- Ψ
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	Total material Cost per Structure		Ψ	\$ -	
V::D120	S1-D120 Assembly and Erection of +6 m leg extension for Dead-End Tower			-	0 \$ -
	S1-D120 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "D2" as per dwg.	Mannour Row	\$ -	\$ -	
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	Total material Coat new Structure		\$ -	\$ -	-
	Total material Cost per Structure	l		-	
V::D121	S1-D121 Assembly and Erection of +7.5 m leg extension for Dead-End Towe	er Type "D2" a	Unit Cost:	\$ -	0 \$ -
	S1-D121 Assembly and Erection of +7.5 m leg extension for Dead-End Tower Type "D2" as per dw				
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	Total material Cost per Structure			\$ -	
V D400		T UDOU			
V::D122	S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower S1-D122 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "D2" as per dwg.		Unit Cost:	\$ -	0 \$ -
		Manhour Row			
	31-D122 Assembly and Erection of +9 filleg extension for Dead-End Tower Type D2 as per dwg.	Manhour Row	\$ -	\$ -	
	31-D122 Assembly and Erection of +9 in reg extension of Dead-End Tower Type U2 as per uwg.	Manhour Row	\$ - \$ -	\$ -	
	31-D122 Assembly and Erection of +9 in reg extension of Dead-End Tower Type 102 as per uwg.	Manhour Row	\$ - \$ - \$ -	\$ -	
	31-D122 Assembly and Erection of +9 in reg extension of Dead-End Tower Type 102 as per uwg.	Manhour Row	\$ - \$ - \$ - \$	\$ - \$ - \$	
	31-D122 Assembly and Erection of +9 in leg extension of Dead-End Tower Type 12 as per uwg.	Manhour Row	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	
	31-D122 Assembly and Erection of +9 in leg extension of Dead-End Tower Type U2 as per uwg.	Manhour Row	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	
	31-D122 Assembly and Creculor 01 +9 in reg extension of Dead-Child Tower Type 102 as per uwg.	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	
	31-D122 Assembly and Erection of +9 in leg extension of Dead-End Tower Type 12 as per uwg.	!Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	16 \$ -
V::D123	Total material Cost per Structure	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ - \$	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
V::D123	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46	as per dwg. 5	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
V::D123 V::D124	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	16 \$ -
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	Total material Cost per Structure S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body S1-D123 Assembly and Erection of Dead-End Tower Type "E1" Basic Body as per dwg. 505573-46 Total material Cost per Structure S1-D124 Assembly and Erection of +4.5 m body extension for Dead-End To	as per dwg. 5 Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



Secretary Secr						
### STANDARD Assembly and Execution of + 2 m log extension for Dead-End Tower Type "Et" as Unit Cost 1 m		Description	QTY	Unit Price	Cost per item	Quantity Total
Schedule Schedule			_			
1.00 1.00	V::D125				\$ -	6 \$ -
V::D128 Si : 1		S1-D125 Assembly and Erection of +10.5 m body extension for Dead-End Tower Type "E1" as per of	Manhour Row			
						-
V::D135 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D135 S1-0126 Assembly and Exection of +15 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D137 S1-0127 Assembly and Exection of +15 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D135 S1-0126 Assembly and Exection of +15 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D135 S1-0126 Assembly and Exection of +15 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D135 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D136 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D136 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D137 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D137 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D138 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D139 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D139 S1-0126 Assembly and Exection of +3 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D139 S1-0126 Assembly and Exection of +4 m log extension for Dead-End Tower Type "E1" as y Unit Cost. V::D139 S1-0126 Assembly and Exection of +4 m log extension for Dead-End Tower Type "E1" as y Unit Cost. S1-0126 Assembly and Exection of +4 m log extension for Dead-End Tower Type "E1" as y Unit Cost. S1-0126 Assembly and Exection of +4 m log extension for Dead-End Tower Type "E1" as y Unit Cost. S1-0126 Assembly and Exection of +4 m log extension for Dead-End Tower Type "E1" as y Unit Cost. S1-0126 Assembly and Exection of +4 m log extension for Dead-End Tower Type "E1" as y Unit Cost. S1-0126 Assembly and Exection of +4 m log extension for Dead						4
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Total material Cost per Structure \$ \$ \$ \$ \$ \$ \$ \$ \$						
V:D126 V:D126 V:D127 V:D127 V:D127 V:D128 V:D128 V:D128 V:D128 V:D128 V:D128 V:D128 V:D129						
V:-D123 S1-01/26 Assembly and Exection of +0 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +0 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +1.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +1.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +3.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly and Exection of +4.5 m leg extension for Dead-End Tower Type "E1" as; Unit Cost: 1,010/16 Assembly an		Total material Cost per Structure		Ψ		-
3 0105 Assembly and Erection of 4.5 m leg extension for Dead-End Tower Type "E1" as july 1 0 0 0 0		Total material cost per of details	1	1	1 4	
3 0105 Accomptly and Exection of -0 ming elements for Dead-End Tower Type *E1* as your feet of -0 ming elements for Dead	V::D126	S1-D126 Assembly and Erection of +0 m leg extension for Dead-End Tower	Type "E1" as	ı Unit Cost:	\$ -	0 \$ -
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Total material Cost per Structure				_		
Total material Cost per Structure						
St-D127 Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "E1" as Unit Cost: St-D127 Assembly and Exection of +1.5 m leg extension for Dead-End Tower Type "E1" as pre-day, Maribour Row. St-D127 Assembly and Exection of +1.5 m leg extension for Dead-End Tower Type "E1" as Unit Cost: St-D128		Total material Continue Circuit		\$ -		-
### St. D127 Assumbly and Erection of +1 5 m log automator for Dead-End Tower Type *Et* as part only Marihour Row. ### St. D127 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit		Total material Cost per Structure			-	
### St. D127 Assumbly and Erection of +1 5 m log automator for Dead-End Tower Type *Et* as part only Marihour Row. ### St. D127 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +3 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D128 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +4.5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +5 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit Cost: ### St. D129 Assumbly and Erection of +6 m log extension for Dead-End Tower Type *Et* as Unit	VD407	C4 D407 Assembly and Exection of .4 5 to low endowning for Day 17 17	Tumo "E4"	u Unit Cont	•	0.0
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	V::D127				\$ -	0 \$ -
S		וט-וב. Assembly and Erection of +1.5 m leg extension for Dead-End Tower Type "E1" as per dwg	iviarinouf Row		l ¢	
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Total material Cost per Structure						1
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V::D128		Total material Cost per Structure		_		
### St-0128 Assembly and Erection of +5 m leg extension for Dead-End Tower Type "E1" as per day. Manhour Row: S					3 -	
S S S C						
S	V::D128	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower	Type "E1" as	Unit Cost:		0 \$ -
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V::D129 S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as Unit Cost: \$ - 32 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	V::D128			S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
V::D129 S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: \$ - \$ - \$ S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: \$ - \$ - \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	V::D128			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: S	V::D128	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg.		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg Manhour Row: S	V::D128	S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg.		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	0 \$ -
		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. : Total material Cost per Structure	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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V::D130 \$ - \$ - \$ - \$ S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg. {Manhour Row: \$ - \$ - \$ \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S - S -		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D130 S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as Unit Cost: \$ - 8 \$ - S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg. {Manhour Row: \$ - \$ - \$ - \$ - \$ -		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::D130 S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as Unit Cost: \$ - 8 \$ - S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg. { Manhour Row: \$ - \$ - \$ - \$ - \$ -		S1-D128 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg. ! Manhour Row: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		S1-D129 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Typ	Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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Para	V::D129	S1-D129 Assembly and Erection of +3 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. S1-D129 Assembly and Erection of +4.5 m leg extension for Dead-End Tower Type "E1" as per dwg. Total material Cost per Structure S1-D130 Assembly and Erection of +6 m leg extension for Dead-End Tower Type "E1" as per dwg.	er Type "E1" as	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	32 \$ -
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Visibility Section S		Material Summaries - by Structure				
VI:DNA		Description	QTY	Unit Price	Cost per item	Quantity Total
VI:DNA	V::D131	S1-D131 Assembly and Erection of +7.5 m leg extension for Dead-End Town	er Type "F1" a	Unit Cost	\$ -	4 \$
VI:E01 3	1				•	* •
VI:E02 S1-62 National Authority Costs per Structure VI:E02 S1-62 Note per Structure VI:E03 S1-62 Note per Structure VI:E04 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E05 S1-62 Note per Structure VI:E06 S1-62 Note per Structure VI:E07 S1-62 Note per Structure VI:E08 S1-62 Note per Structure VI:E08 S1-62 Note per Structure VI:E08 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-62 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-63 Note per Structure VI:E09 S1-64 S1 Industrial Cost per Structure VI:E09 S1-64 S1 Industrial Cost per Structure VI:E09 S1-64 S1 Industrial Cost per Structure VI:E09 S1-64 S1 Industrial Cost per Structure VI:E09 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Structure VI:E00 S1-64 S1 Industrial Cost per Struc						4
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### SCHOOL Assumption of Fundamental Fig. 10 Sept. 10 Sep		otal material Cost per Structure	1		-	
	V::D132	S1-D132 Assembly and Erection of +9 m leg extension for Dead-End Tower	Type "E1" as	Unit Cost:	-	20 \$ -
		S1-D132 Assembly and Erection of +9 m leg extension for Dead-End Tower Type "E1" as per dwg.	Manhour Row			
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Total material Cost per Structure						
Total material Cost per Structure						4
### SI-E1 Installation of Counterprose wire, connection with tower grounding Mainthout Prov.		Total material Cost per Structure		φ -		-
### SI-E1 Installation of Counterprose wire, connection with tower grounding Mainthout Prov.		<u> </u>				
	V::E01		Manhour Pow		\$ -	470 \$ -
		51-E1 installation of Counterpoise wire, connection with lower grounding	Mailloui Row		-	
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V::E02 Since Sinc						
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V::E02 S1-E2 Installation of ground rods at crossing obstacles in soil and rock S						
Total material Cost per Structure						-
V::E02 S1-E2 Installation of ground rods at crossing obstacles in soil and rock S1-E2 Installation of ground rods at crossing obstacles in soil and rock Manhour Rov:						-
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Size Installation of ground rods at crossing obtaines in soil and rock Size Size	VE02	\$1.52 Installation of ground rade at crossing obstacles in soil and rock		Unit Cost	e -	460 \$
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V::E03 S1-E3 Tower Footing resistance measurement				\$ -		
S1-E3 Tower Footing resistance measurement		Total material Cost per Structure			-	
V::E04 S	V::E03	S1-E3 Tower Footing resistance measurement		Unit Cost:	\$ -	470 \$ -
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Total material Cost per Structure						4
V::E04 S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conducto Unit Cost: \$ - 0 \$ - S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compli Manhour Row: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -		Total material Cost per Structure		Ψ -		†
S1-E4 S1 - Installation of Conductor on Steel Towers - 3633.0 kcmil 110/7 ACSR Conductor, compli Manhour Row: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -						
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	waterial Summanes - by Structure				
	Description	QTY	Unit Price	Cost per item	Quantity Total
V::E05	S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR	Grackle Condi	Unit Cost:	\$ -	0 \$ -
****	S1-E5 Installation of Conductor on Steel Towers - 1192.5 kcmil 54/19 ACSR Grackle Conductor, co			•	
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V::E06	S1-E6 Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR			-	0 \$ -
	S1-E6 Installation of Conductor on Steel Towers - 1590.0 kcmil 54/19 ACSR Falcon Conductor, con	INIAIIIIOUI ROW	\$ -	\$ -	
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	Total material Cost per Structure			-	
V::E07	S1-E7 Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR 0	Frackle Condu	Unit Cost:	\$ -	0 \$ -
	S1-E7 Installation of Conductor on Wood Poles - 1192.5 kcmil 54/19 ACSR Grackle Conductor, con				
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V::E08	S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR F S1-E8 Installation of Conductor on Wood Poles - 1590.0 kcmil 54/19 ACSR Falcon Conductor, com			\$ -	0 \$ -
	31-Ed Installation of Conductor on Wood Foles - 1350.0 Kernii 34/15 ACSIX Falcon Conductor, com	Walliou Tow	\$ -	\$ -	
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	Total material Cost per Structure		-	\$ - \$ -	-
	Total material cost per otructure		l		
V::E09	S1-E9 Installation of ADSS on Wood Poles		Unit Cost:	\$ -	0 \$ -
	S1-E9 Installation of ADSS on Wood Poles	Manhour Row			
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V::E10	S1-E10 ADSS splicing and tests including loss analysis		Unit Cost:	\$ -	0 \$ -
•L10	S1-E10 ADSS splicing and tests including loss analysis	Manhour Row		-	
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::E11	S1-E11 ADSS end to end test		Unit Cost:	\$ -	0 \$ -
	S1-E11 ADSS end to end test	Manhour Row			
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	Total material Cost per Structure		\$ -	\$ - \$ -	
	Total material cost per circulation		I	1 4	
V::E12	S1-E12 S1 - Installation of OPGW		Unit Cost:	-	0 \$ -
	S1-E12 S1 - Installation of OPGW	Manhour Row	\$ -	\$ -	
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	Total material Cost per Structure			\$ -	
V.:E40	S1 E12 ODGW Continuity tools before and often stall all a		Unit Coot	\$ -	1 \$ -
V::E13	S1-E13 OPGW Continuity tests before and after stringing S1-E13 OPGW Continuity tests before and after stringing	Manhour Row	Unit Cost:	\$ -	1 \$ -
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	Total material Cost per Structure				
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V··F14		3 4	Unit Cost		100 \$ -
V::E14	S1-E14 OPGW splicing and tests including loss analysis	Manhour Row	Unit Cost:	\$ -	100 \$ -
V::E14		Manhour Row	\$ -	\$ -	100 \$ -
V::E14	S1-E14 OPGW splicing and tests including loss analysis	Manhour Row	\$ - \$ -	\$ - \$ - \$ -	100 \$ -
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V::E14	S1-E14 OPGW splicing and tests including loss analysis	Manhour Row	\$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	100 \$ -
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V::E14	S1-E14 OPGW splicing and tests including loss analysis	Manhour Row	\$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	100 \$ -
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V::E15	S1-E14 OPGW splicing and tests including loss analysis S1-E14 OPGW splicing and tests including loss analysis Total material Cost per Structure S1-E15 OPGW end to end test		Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
	S1-E14 OPGW splicing and tests including loss analysis S1-E14 OPGW splicing and tests including loss analysis Total material Cost per Structure S1-E15 OPGW end to end test S1-E15 OPGW end to end test S1-E15 OPGW end to end test S1-E15 OPGW end to end test S1-E15 OPGW end to end test	Manhour Row	Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::E15	S1-E14 OPGW splicing and tests including loss analysis S1-E14 OPGW splicing and tests including loss analysis Total material Cost per Structure S1-E15 OPGW end to end test S1-E15 OPGW end to end test Total material Cost per Structure		Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$ -
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	Description	QTY	Unit Price	Cost per item	Quantity Total
V::G01	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Draw			\$ 2,300.00	0 \$ -
	S1-G1 Framing and Setting of Single Pole Tangent (0 - 1 deg) as per Drawing 505573-4633-4ZI Wood pole 2 m blast		w. . <mark>4 \$ 5,750.00</mark>	\$ 2,300.00	
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	Total material Cost per Structure			\$ 2,300.00	
V::G02	S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Gu			\$ 2,300.00	0 \$ -
	S1-G2 Framing and Setting of Single Pole Light angle (1 - 10 deg) with Guys as per Drawing 505. Wood pole 2 m blast		w: . <mark>4 \$ 5,750.00</mark>	\$ 2,300.00	
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	Total material Cost per Structure			\$ 2,300.00	
V::G03	S1-G3 Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with 0 S1-G3 Framing and Setting of Single Pole Heavy angle (10 - 30 deg) with Guys as per Drawing 5			\$ 2,300.00	0 \$ -
	Wood pole 2 m blast		.4 \$ 5,750.00		
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	Total material Cost per Structure			\$ 2,300.00)
V::G04	S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guy S1-G4 Framing and Setting of Single Pole Dead-end (30 - 90 deg) with Guys as per Drawing 505			\$ 2,300.00	0 \$ -
	Wood pole 2 m blast		.4 \$ 5,750.00	\$ 2,300.00	
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	Total material Cost per Structure			\$ 2,300.00	
V::G05	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) w			\$ 2,300.00	0 \$ -
	S1-G5 Framing and Setting of Single Pole Floating Dead-end (0 - 1 deg) with Guys as per Drawin Wood pole 2 m blast		w: . <mark>4 \$ 5,750.00</mark>	\$ 2,300.00	
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	Total material Cost per Structure		-	\$ 2,300.00	
V::G06	S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in			\$ 2,300.00	0 \$ -
	S1-G6 Framing and Setting of Two Pole Dead-end to tap to HVdc Tower in Labrador as per Draw Wood pole 2 m blast		w: . <mark>4 \$ 5,750.00</mark>	\$ 2,300.00	
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	Total material Cost per Structure		-	\$ 2,300.00	<u> </u>
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	Description	QTY	Unit Drice	Coot novitom	Quantity Total
	Description	QIY	Unit Price	Cost per item	Quantity Total
V::I01	S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as p			\$ -	2 \$ -
	S1-I1 Perform Geotechnical Investigation and Identify Foundation Type as per Design Drawings and	Manhour Row	\$ -	\$ -	
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	Total material Cost per Structure		- Ψ	\$ -	-
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V::I02	S1-I2 Design and supply of micropile option as replacement for H-pile designation of the state o	gn Manhour Row:	Unit Cost:	-	2 \$ -
	S1-I2 Design and supply of micropile option as replacement for H-pile design	Mannour Row	\$ -	\$ -	
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	Total material Cost per Structure		*	\$ -	
V::I03	S1-I3 Optional cost for mulching given area instead of salvaging S1-I3 Optional cost for mulching given area instead of salvaging	Manhour Row	Unit Cost:	-	2737 \$ -
	Ones Optional cost for indicting given area instead of sarvaging	Walliou Row.	\$ -	\$ -	
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	Total material Cost per Structure		Ψ	\$ -	_
V::I04	S1-I4 Installation of Access Road - Alternative S1-I4 Installation of Access Road - Alternative	Manhour Row	Unit Cost:	\$ -	0 \$ -
	ST-H III Stallation of Access Noau - Attendance	Walliour Row.	\$ -	\$ -	
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	Total material Cost per Structure		Ψ	\$ -	
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V::I05	\$1-I5 Slack Span Connections - Installation of all Conductor and OPGW from S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connections - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connection - Installation of all Conductor and OPGW from Terminal Tower to the S1-I5 Slack Span Connection - Installation OPGW from Terminal Tower to the S1-I5 Slack Span Connection - Installation - Instal			-	1 \$ -
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V::I06	S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/AD S1-I6 Slack Span Connections - Installation of all Conductor and OPGW/ADSS from Terminal Woo			-	0 \$ -
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	Description	QTY	Unit Price	Cost per item	Quantity Total
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V::I07	S1-I7 Supply and Installation of Culvert - 1000 mm		Unit Cost:	\$ -	13 \$ -
	S1-I7 Supply and Installation of Culvert - 1000 mm	Manhour Row	:		
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V::I08	S1-I8 Supply and Installation of Culvert - 1200 mm		Unit Cost:	\$ -	13 \$ -
VIOO	S1-I8 Supply and Installation of Culvert - 1200 mm	Manhour Row		4	13 \$
	31-16 Supply and installation of Culvert - 1200 min	Marinour Row	-	-	
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	Total material Cost per Structure			\$ -	
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V::I09	S1-I9 Supply and Installation of Culvert - 1600 mm		Unit Cost:	\$ -	13 \$ -
	S1-I9 Supply and Installation of Culvert - 1600 mm	Manhour Row			
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V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm		Unit Cost:	\$ -	13 \$ -
V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm S1-I10 Supply and Installation of Culvert - 2000 mm	Manhour Row			13 \$ -
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V::I10	S1-I10 Supply and Installation of Culvert - 2000 mm	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$ -
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	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure	Manhour Row	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
V::I10 V::I11	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm		\$ - \$ - \$ - \$ \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	13 \$ -
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	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm		Unit Cost:	\$ - \$ - \$ - \$ \$ -	
	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm		Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ \$ -	
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	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm		Unit Cost:	\$ - \$ - \$ - \$ \$ -	
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	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm		Unit Cost:	\$ - \$ - \$ - \$ \$ -	
V::l11	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm S1-I11 Supply and Installation of Culvert - 2400 mm		Unit Cost: S	\$ - \$ - \$ \$	13 \$ -
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V::l11	S1-I10 Supply and Installation of Culvert - 2000 mm Total material Cost per Structure S1-I11 Supply and Installation of Culvert - 2400 mm S1-I11 Supply and Installation of Culvert - 2400 mm		Unit Cost:	\$ - \$ - \$ \$	13 \$ -
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	S1-I19 Assembly and Installation of Foundation Type C1-1, per kg, to be used for weight increases	₁ Manhour Rov	r:		
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120	S1-I20 Assembly and Installation of Foundation Type C2-1, per kg, to be us	ed for weight	r Unit Cost:	\$ -	1 \$ -
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21	S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be us	od for woight	r Unit Cost	\$ -	1 \$ -
121	S1-I21 Assembly and Installation of Foundation Type D1-1, per kg, to be used for weight increases			9 -	1 9
	31-12 i Assembly and installation of Foundation Type D1-1, per kg, to be used for weight increases	Civiannour 100	\$ -	-	
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:122	S1-I22 Assembly and Installation of Foundation Type D2-1, per kg, to be us			\$	1 \$ -
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123	S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be us		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
123			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
123	S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be us		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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123	S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases S1-I23 Assembly and Installation of Foundation Type E1-1, per kg, to be used for weight increases		T Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
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S1-I25 Assembly and I	nstallation of Foundation Type A2-2, per kg, to be used for weight increase	s o Manhour Rov		¢	
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:I26 S1-I26 Assembly	and Installation of Foundation Type A3-2, per kg, to be u	sed for weight	ir Unit Cost:	\$ -	1 \$ -
	nstallation of Foundation Type A3-2, per kg, to be used for weight increase			Y	
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	and Installation of Foundation Type A4-2, per kg, to be u			\$ -	1 \$ -
S1-I27 Assembly and I	nstallation of Foundation Type A4-2, per kg, to be used for weight increase	s o Manhour Roy			*
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Total material Co	st per structure			φ*	
·128 S1-128 Assembly	and Installation of Foundation Type R1-2 per kg. to be u	sed for weight	ir Unit Cost	\$ -	1 \$ -
	and Installation of Foundation Type B1-2, per kg, to be u			\$ -	1 \$ -
	and Installation of Foundation Type B1-2, per kg, to be unstallation of Foundation Type B1-2, per kg, to be used for weight increase		v:		1 \$ -
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	nstallation of Foundation Type B1-2, per kg, to be used for weight increase		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
S1-I28 Assembly and I	nstallation of Foundation Type B1-2, per kg, to be used for weight increase	s o Manhour Rov	/: \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I28 Assembly and I	nstallation of Foundation Type B1-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be u	so Manhour Rov	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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S1-I28 Assembly and I	nstallation of Foundation Type B1-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be u	so Manhour Rov	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
Total material Co	nstallation of Foundation Type B1-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be u	so Manhour Rov	/:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I28 Assembly and I	nstallation of Foundation Type B1-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be u	so Manhour Rov	/:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - 5 -	
S1-I28 Assembly and I	nstallation of Foundation Type B1-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be u	so Manhour Rov		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
S1-I28 Assembly and I	nstallation of Foundation Type B1-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be u	so Manhour Rov	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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Total material Co S1-129 Assembly and I	st per Structure and Installation of Foundation Type B2-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be used for weight increase	so Manhour Rov	S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
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S1-I28 Assembly and I Total material Co S1-I29 Assembly and I Total material Co Total material Co S1-I30 Assembly	st per Structure and Installation of Foundation Type B2-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be used for weight increase st per Structure and Installation of Foundation Type B2-2, per kg, to be used for weight increase and Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation of Foundation Type C1-2, per kg, to be used Installation In	sed for weight		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
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:1	Description	QTY	Unit Price	Cost per item	Quantity Total
11					
	S1-I31 Assembly and Installation of Foundation Type C2-2, per kg, to be use			\$ -	1 \$
	S1-I31 Assembly and Installation of Foundation Type C2-2, per kg, to be used for weight increases	<u>c Manhour Row</u>	r:		
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			\$ -	\$ -	
			\$ -	\$ -	7
l			\$ -	\$ -	
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l	Total material Cost per Structure		Φ -	\$ -	
l	Total material Cost per Structure	l .		a -	
,,	S1 122 Accomply and Installation of Foundation Type D1 2, per kg, to be us	ad for waight i	r Unit Coots	è	1 \$
	S1-I32 Assembly and Installation of Foundation Type D1-2, per kg, to be use			-	1 \$
	S1-I32 Assembly and Installation of Foundation Type D1-2, per kg, to be used for weight increases	CIVIAIIIIOUI ROW		•	
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l			\$ -	\$ -	
			\$ -	\$ -	
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			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
3	S1-I33 Assembly and Installation of Foundation Type D2-2, per kg, to be use	ed for weight i	r Unit Cost:	\$ -	1 \$
	S1-I33 Assembly and Installation of Foundation Type D2-2, per kg, to be used for weight increases	Manhour Row	/:		
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l	T. () () () () ()		\$ -	\$ - \$ -	
ı	Total material Cost per Structure			φ-	1
	0.00.4				
			a Hair Onet	.	4 6
	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be use			\$ -	1 \$
	S1-134 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases		r:		1 \$
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			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
			S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases		S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ - \$ \$ \$ \$ \$ \$ \$ - \$	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	C Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ \$ - \$ \$	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	o Manhour Row	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ - \$	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases Total material Cost per Structure S1-I35 Assembly and Erection of Tower Type A1, per kg, to be used for weight increases	o Manhour Row	C Unit Cost: S - S - S - S - S - S - S - S - S - S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases	S - S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ - \$ \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost:	\$ - \$ - \$ - \$ - \$	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
5	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
55	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
355	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ -	1 \$
355	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ \$ -	1 \$
35	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
35	S1-I34 Assembly and Installation of Foundation Type E1-2, per kg, to be used for weight increases of the state of the stat	ght increases s Manhour Row	C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost: C Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$

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::137					
:137	Description	QTY	Unit Price	Cost per item	Quantity Total
::137		•	•		<u> </u>
	S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for wei	ight increases	c Unit Cost:	\$ -	1 \$ -
	S1-I37 Assembly and Erection of Tower Type A3, per kg, to be used for weight increases or decrea				
			\$ -	\$ -	
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	Total material Cost per Structure		-	\$ -	-
	Total material oost per on detaile	L	<u> </u>	Ψ -	
138	S1-I38 Assembly and Erection of Tower Type A4, per kg, to be used for wei	inht increases	C Unit Cost:	\$ -	1 \$ -
.00	S1-I38 Assembly and Erection of Tower Type A4, per kg, to be used for weight increases or decrea			Ψ /	
	51-100 7035 mility and Election of Tower Type 744, per kg, to be used for weight moreases of decree	Sivialillour Roy	-	\$ -	
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			\$ -	7	-
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	Total material Cost was Structure		\$ -	\$ -	-
	Total material Cost per Structure			-	
	041004 11 15 41 45 5 5 54 1 4 1				1.0
139	S1-I39 Assembly and Erection of Tower Type B1, per kg, to be used for we			\$ -	1 \$ -
	S1-I39 Assembly and Erection of Tower Type B1, per kg, to be used for weight increases or decrea	s Manhour Roy			
			\$ -	\$ -	
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			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
:140	S1-I40 Assembly and Erection of Tower Type B2, per kg, to be used for we	ight increases	C Unit Cost:	\$ -	1 \$ -
	S1-I40 Assembly and Erection of Tower Type B2, per kg, to be used for weight increases or decrea	s Manho <mark>ur Ro</mark> w	r:		
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	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	
	Total material Cost per Structure		\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	
141	Total material Cost per Structure S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for we	ight increases	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	1 \$ -
141			\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
l 4 1	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
:141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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141	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decrea		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$
l 41	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for wei		Unit Cost:	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	1 \$ -
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::I41 :::I42	S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. S1-I41 Assembly and Erection of Tower Type C1, per kg, to be used for weight increases or decreases. Total material Cost per Structure S1-I42 Assembly and Erection of Tower Type C2, per kg, to be used for weight increases.	is Manhour Row	C Unit Cost: S	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	



	Description	QTY	Unit Price	Cost per item	Quantity Total
V::I43	S1-I43 Assembly and Erection of Tower Type D1, per kg, to be used for we			\$ -	1 \$ -
	S1-I43 Assembly and Erection of Tower Type D1, per kg, to be used for weight increases or decreases.	as Manhour Rov	v: - \$ -	\$ -	1
			\$ -	\$ -	
			\$ - \$ -	\$ -	
			\$ -	\$ - \$ -	
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			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
:144	S1-I44 Assembly and Erection of Tower Type D2, per kg, to be used for we	ight increases	C Unit Cost:	\$ -	1 \$ -
	S1-I44 Assembly and Erection of Tower Type D2, per kg, to be used for weight increases or decreases		v:		
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ - \$ -	\$ - \$ -	
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure			\$ -	
:145	S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for we	i nht increases	c Unit Cost:	\$ -	1 \$ -
143	S1-I45 Assembly and Erection of Tower Type E1, per kg, to be used for weight increases or decreases.				1 3
	7 7 7 0		\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ -	
			\$ -	\$ - \$ -	-
			\$ -	\$ -	4
			\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	-	
	Total material Cost per Structure		\$ -	\$ - \$ -	_
146	S1-I46 Survey Cost S1-I46 Survey Cost	Manhour Roy	Unit Cost:	\$ 2,622,289.39	1 \$ 2,622,289.3
	Survey Cost Segment 4		1 \$ 1,54 1,853.21	\$ 1,541,853.21	
	Survey Cost Segment 5		1 \$ 1,080,436.17		
			\$ -	\$ -	_
			\$ -	\$ -	_
			\$ -	\$ - \$ -	-
			\$ -	\$ -	1
			\$ -	\$ -	
			\$ -	\$ -	
	Total material Cost per Structure		\$ -	\$ - \$ 2,622,289.39	-
	Total material Cost per Structure			\$ 2,622,289.39	<u> </u>
E(Ride	r) RiderPole	Manhaur Day	Unit Cost:	\$ 236.90	150 \$ 35,535.C
	RiderPole Screened Crushed Rock (Tonne)	Manhour Roy	v: <mark>5</mark> \$ 47.38	\$ 236.90	
	Sissing Studied Hook (ISINO)		\$ -	\$ 230.90	1
			\$ -	\$ -	
			\$ -	\$ -	4
			\$ -	\$ -	4
	Total material Cost per Structure		\$ -	\$ - \$ 236.90	\dashv
	Total metalial door por ou action	1	1	250.50	
				_	
	Total Materials:	\$	204,272,679.94		

NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland) Project Estimate - Valard Construction Ltd MFP Exhibit P-01886





External Data Input	Return?
Link from Other Page	Distance (1-way):
Link for Other Page	Average distance/hr.:

Personnel

Designation	Quantity	Rate	Hrs.
Supervisor	2	\$ 142.83	80.00
Foreman	17	\$ 120.15	80.00
Surveyor	7	\$ 111.85	80.00
Lineman	18	\$ 111.85	80.00
Apprentice - 4th Year	15	\$ 103.90	80.00
Apprentice - 3rd Year	23	\$ 95.95	80.00
Apprentice - 2nd Year	8	\$ 87.99	80.00
Apprentice - 1st Year	4	\$ 80.04	80.00
Equipment Operator	27	\$ 96.49	80.00
Truck Driver / Picker Op.	23	\$ 107.16	80.00
Labourer	4	\$ 87.44	80.00

Equipment

Description	Quantity	Rate	Hrs.
Pickup	12	\$ 24.36	80.00
Crew Cab Truck	38	\$ 29.20	80.00
Conductor Splicing Truck	1	\$ 46.02	80.00
OPGW Splicing Truck	1	\$ 93.60	80.00
Picker - 17 Ton	8	\$ 136.27	80.00
Picker - 38 Ton	2	\$ 180.25	80.00
40T RT Crane	3	\$ 195.70	80.00
60T RT Crane	1	\$ 247.20	80.00
80T RT Crane	1	\$ 345.05	80.00
Digger - TelElect 5052	2	\$ 89.40	80.00
120' Gene Lift	2	\$ 87.55	80.00
53' Tridem trailer	13	\$ 11.85	80.00
T/A Gravel Truck	1	\$ 68.13	80.00
T/A Rock Truck	1	\$ 121.67	80.00
Tractor Trailer/Picker	4	\$ 134.67	80.00
Tractor Trailer (Heavy)	5	\$ 134.67	80.00
Crawler Tractors 750 JD	3	\$ 165.83	80.00
JD 310 Back Hoe	1	\$ 68.13	80.00
JD 554 Loader	12	\$ 69.27	80.00
JD 290 Track-hoe	6	\$ 130.60	80.00
Nodwells - Picker over 17 Ton	2	\$ 228.25	80.00
Nodwell - Digger	1	\$ 130.60	80.00
Trencher	1	\$ 84.36	80.00
10T Tele-Handler	7	\$ 53.00	80.00
Quad or Side by Side	9	\$ 24.21	80.00
Reel Trailer	3	\$ 72.10	80.00
Tensioner	1	\$ 139.05	80.00
Puller	1	\$ 139.05	80.00
1 Drum Puller	1	\$ 77.25	80.00
Single Tensioner	1	\$ 77.25	80.00
Single Traveller	50	\$ 0.52	80.00
JD 350 LDC Excavator	4	\$ 160.89	80.00
Compressor	2	\$ 22.04	80.00
Grout truck	1	\$ 82.40	80.00
Rock Drill	2	\$ 103.00	80.00
Press & Pump, Genset, Light plant	15	\$ 13.46	80.00
Water pump	2	\$ 40.99	80.00
Pilot Line Winder	1	\$ 92.70	80.00
Spacer Buggy	3	\$ 46.35	80.00
Travellers (ea)	200	\$ 1.24	80.00
Traffic Control Sign	2	\$ 21.84	80.00
Hoe-Pack	1	\$ 25.75	80.00
Survey Equipment	7	\$ 56.65	80.00
Medium Lift Helicopter - Operated	_1	\$ 3,071.98	80.00
Light Duty Helicopter - Operated	1	\$ 1,905.50	20.00

Description	Quantity	Rate	Hrs.
Dead-heads	50	\$ 218.50	160.00
Direct-hauls	8	\$ 218.50	80.00

Provided under NDA



NALCOR 350 kV HVdc Line Construction Front 3 (Newfoundland) Project Estimate - Valard Construction Ltd. Indirect Costs

External Data Input Link from Other Page Link for Other Page

18 Months
450 Days Project Duration:

	Positions	Hrs Day	Days	Hourly Rate
Quanta Executive Representative	1	11	325	N/C
Project manager	1	11	650	\$ 200.00
Supervisors	5	11	650	\$ 142.83
QA	5	11	650	\$ 103.90
Human Resources Coordinator	0.5	11	650	\$ 95.95
Environmental Lead	0.33	11	650	\$ 200.00
Environmental Coordinator	1	11	650	\$ 142.83
Environmental Monitor	2	11	650	\$ 95.95
Project Administration	6	11	650	\$ 95.95
Safety Supervisor	3	11	650	\$ 142.83
Camp Field Medical Staff	5	12	650	\$ 142.83
First Aid Attendant	4	11	650	\$ 142.83
HS&E Manager	1	11	650	\$ 142.83
Geotechnical consultant	0	11	650	\$ 175.00
Material Manager c/w truck	2	11	650	\$ 128.26
ROW coordinator	7.5	11	450	\$ 142.83
Mechanic	3	11	650	\$ 111.85
Pick up Trucks For Above	40.33333333	11	650	\$ 24.36

Facilities:

Units	Quantity	เพื่อกเกร	MOHUI	ly Rate
each	6	28	\$	1,800.00
each	15	28	\$	350.00
each	8	28	\$	150.00
month	3	28	\$	2,500.00
Lump Sum	3	28	\$	2,500.00
	each each each month	each 6 each 15 each 8 month 3	each 6 28 each 15 28 each 8 28 month 3 28	each 6 28 \$ each 15 28 \$ each 8 28 \$ month 3 28 \$

Crew	Training & Orier	ntation E	xtra Training Allowan	ce	8	Н	ours	
1 Hauling	•		•		Total Hours	Н	ourly Rate	Crews
2 Side Preparation			1	209				1
3 Blocking Crew			1			_		1
A Lattice Assembly			-					1
6 Tower Topping						-		1
Thau Travellers								1
B Hang Travellers								1
9 Wire Hauling						_		1
10 Pull Site Prep		· ·	-			_		1
11 Stringing	10	Pull Site Pren						1
12 Tie - in		·	1			_		1
13 Deadends			1					1
15 OPGW Install						_		1
16 Rider Pole Crew								1
17 Foundation Haul								1
18 Foundation Survey (\$250/h)						_		1
19 Found Excavation						_		1
20 Grillage Installation			1			_		1
21 Backfill and Compact 1 68 77 \$ 432.84 1			1					1
22 Site Cleanup			1			_		1
23 Grout Crew								1
24 Concrete Foundations						_		1
25 Ground Testing			1			_		1
28 Camp Site Preparation			1	109		_		1
29 Supervisory			1			-		1
36 Rock Foundations			1			\$		1
39 Guy Install			1	23	31	\$	142.83	1
Automatic Auto			1	101	109	\$	516.53	1
Tower Plumb			1	29	37	\$	795.31	1
1	40	Y- Tower Erection	1	43	51	\$	899.47	1
1	41	Tower Plumb	1	28	36	\$	711.72	1
1	42	OPGW Splice	1	33	41	\$	174.87	1
1	43	Counterpoise Instal	1	58	66	\$	424.98	1
1	45	Camp Setup	1	12	20	\$	1,293.35	1
Road Flagging along Active Haul Roads - 2x flaggers			1	109	117	\$		1
Aircraft - Cessna Conquest Hours \$ 1,300.00 371								1
Aircraft - Cessna Conquest Hours \$ 1,300.00 371	Road Flagging a	along Active Haul Roads - 2x flag	agers		Davs	\$	814.00	60
Executive Air Fare - Commercial 325 Tickets at \$800.00 / trip					_	_		
Air Fare - Commercial 2570 Tickets at \$800.00 / trip Each \$ 800.00 2570 Temporary Shop Facilities Each \$ 60,000.00 1 Employee Drug Testing test \$ 115.00 395 Buttdowns materials Ea \$ 1,600.00 80 Grounding Maerial for slug sites Ea \$ 2,000.00 2 Special grips for 3633 kcmil Ea \$ 1,600.00 30 Special hoist (12t) Ea \$ 2,400.00 20 Mappin cost (work planning, drawings) Ea \$ 2,400.00 20 Buttdown security Night \$ 650.00 120 Implo storage and maintenance Month \$ 5,000.00 26 Property rental Month \$ 3,500.00 26 S4 Additional culverts based on 2 culverts per/km over 1104km of all season road including Is \$ 961,920.00 1 S5 Additional culverts based on 2 culverts per/km over 1104km of all season road including Is \$ 1,226,880.00 1 S5 Additional culverts based on 2 culverts per/km over 1104km of all season road including Is \$ 775,320.00 1 S5 Additional culverts			\$800.00 / trip			_		
Temporary Shop Facilities Each \$ 60,000.00 1 Employee Drug Testing test \$ 115.00 395 Buttdowns materials Ea \$ 1,600.00 80 Grounding Material for slug sites Ea \$ 20,000.00 2 Special grips for 3633 kcmil Ea \$ 1,600.00 30 Special prips for 3633 kcmil Ea \$ 1,600.00 30 Mappin cost (work planning, drawings) Ea \$ 2,400.00 20 Mappin cost (work planning, drawings) Ea \$ 175.00 30 Buttdown security Night \$ 650.00 120 Implo storage and maintenance Month \$ 5,000.00 26 Property rental Month \$ 3,500.00 26 Property rental Month \$ 5,000.00 26 S4 Additional culverts based on 2 culverts per/km over 1104km of all season road including is \$ 961,920.00 1 S5 Additional culverts based on 2 culverts per/km over 1104km of all season road including is \$ 607,880.00 1 S5 Additional culverts based on 2 culverts per/km over 1104km of all season road includin						_		
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Tools:

Tools.			
	Unit	Unit cost	Quantity
Traffic Accommdation Signage	Lump Sum	\$ 37,000.00	2
IT System	Lump Sum	\$ 30,000.00	1
Videoconference System	Lump Sum	\$ 35,000.00	2
Computer & Office Equipment	ea	\$ 1,000.00	15
Operate Cell Phone	unit-month	\$ 400.00	50

Other:

	_		
Engineering Support	Lump Sum	\$ 150,000.00	1

CIMFP Exhibit P-01886

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nalcor e ne r g y LOWER CHURCHILL PROJECT

Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

ATTACHMENT 11

MOU BETWEEN LCMC, QUANTA SERVICES AND VALARD CONSTRUCTION LP

MEMORANDUM OF UNDERSTANDING

LOWER CHURCHILL MANAGEMENT CORPORATION

and

QUANTA SERVICES, INC.

and

VALARD CONSTRUCTION LP

THIS MEMORANDUM OF UNDERSTANDING ("MOU") is made as of March 28, 2014 (the "Effective Date").

BETWEEN:

LOWER CHURCHILL MANAGEMENT CORPORATION, a body corporate constituted pursuant to the *Corporations Act*, RSNL 1990, c. C-36, as amended, and having its head office in the City of St. John's in the Province of Newfoundland and Labrador, Canada (hereinafter referred to as "LCMC"), on behalf of itself and Labrador Transmission Corporation (an Affiliate of LCMC) and Labrador-Island Link Limited Partnership (an Affiliate of LCMC);

and

QUANTA SERVICES, INC., a body incorporated under the laws of Delaware, U.S.A., with its head office in the State of Texas, U.S.A. (hereinafter referred to as "Quanta");

and

VALARD CONSTRUCTION LP, a limited partnership formed pursuant to the laws of the Province of Alberta, Canada, represented by its general partner, Valard Construction 2008 Ltd. (hereinafter referred to as "Valard").

(Each of the above parties are hereinafter referred to as "Party" and collectively as the "Parties")

WHEREAS:

- A. LCMC and Quanta entered into a Confidentiality and Non-Disclosure Agreement dated the 14th day of November, 2013 (the "NDA"), to explore potential business relationships or transactions involving Quanta or certain of its Affiliates, for the construction of the HVdc transmission line between Muskrat Falls and Soldier's Pond (the "Work") relating to the Lower Churchill Project (the "LCP") in the Province of Newfoundland and Labrador (the "Province");
- B. Quanta's Affiliate, Valard, has been leading the development of Quanta's proposal for the Work dated the 16th day of December, 2013 (the "Proposal"), in accordance with the documents and drawings provided by LCMC;
- C. The Parties wish to enter into arrangements and transactions as described herein on the basis set out in this MOU; and
- D. For the purposes of this MOU, the term "Affiliate" has the meaning given to affiliate in the *Canada Business Corporations Act*, R.S.C. 1985, c. C-44 and includes any limited partnership whose general partner is an affiliate of Company under that statute.

IT IS AGREED as follows:

- LCMC, on behalf of Labrador-Island Link Limited Partnership (an Affiliate of LCMC), and Valard will enter into good faith negotiations to conclude a formal agreement between Labrador-Island Link Limited Partnership and Valard (the "Agreement") in respect of the Work, subject to and in accordance with the other provisions of this MOU.
- The execution plan, work schedule and management organization for the Work will be generally consistent with the Proposal, including the establishment of a project office in the City of St. John's in the Province from which control and management of the Work will be led by a full-time Project Director, with supporting staff, of Valard.
- The Articles and Exhibit 14 (Performance Security) of the Agreement will be consistent, mutatis mutandis, with those of the agreement between Labrador Transmission Corporation and Valard for the Construction of HVac Transmission Lines (MF to CF), effectively dated the 17th day of December 2013, being Agreement No. CT0319, except:
 - (a) The liquidated damages amounts are as stated in Attachment 1 hereto.
 - (b) The value of the Letter of Credit will be negotiated in good faith between Valard and LCMC.
 - (c) Article 24.16 will be deleted and the following clause will replace Article 21.14: "Except for a Party's indemnity obligations to the other Party in respect of third party Claims under this Article 21 and liquidated damages pursuant to Article 26, a Party has no responsibility and shall not be liable under this Agreement to the other Party for any Claim in respect of loss of profit, business interruption, loss of use, or any similar indirect or consequential damages or losses resulting from, arising out of or in connection with the Work or any obligation pursuant to this Agreement howsoever caused."
 - (d) Article 21.5(g) will be revised to delete the word "sole".
 - (e) Article 21.10(a) will be revised to insert the phrase, "except as otherwise expressly provided in this Article 21," at the beginning of sub-clause (a).
 - (f) A new Article 21.15 will be inserted as follows:
 - "Notwithstanding anything to the contrary in this Agreement, the maximum aggregate liability of Contractor to Company for all Claims arising out of or connected with the Work or performance or breach of this Agreement shall be limited to the sum of:
 - (a) one hundred percent (100%) of the total Contract Price; and
 - (b) the amount of actual insurance proceeds received with respect to such Claims from insurance to be maintained under this Agreement, less any applicable deductible in respect of any proceeds received by Company under Contractor's third party liability insurance;

provided however that such limitation shall not apply in cases of:

(i) Claims for personal injury (including death) for which Contractor is liable to Company or has a duty to indemnify Company under this Agreement;

- (ii) Claims for property damage or loss for which Contractor is liable to Company or has a duty to indemnify Company under this Agreement, except for damage to or loss of the Work;
- (iii) Contractor's fraud, willful misconduct or gross negligence;
- (iv) Taxes, fines and/or penalties imposed by any Authority for which Contractor is liable under this Agreement;
- (v) Claims for infringement of patents and/or other intellectual property rights, or breach of the confidentiality provisions of this Agreement;
- (vi) Claims for any environmental damage or loss for which Contractor is liable to Company or has a duty to indemnify Company under this Agreement or resulting from a breach of this Agreement by Contractor; and
- (vii) any other Claims by a third party, including any Authority, for which Contractor has a duty to indemnify Company under this Agreement."
- 4. Valard will revise its Proposal to amend its price for the Work to the amount of eight hundred and twenty million Canadian Dollars (\$820,000,000 CDN), except that this amended price will not include:
 - an amount for right-of-way (ROW) clearing and access preparation, which will be negotiated in good faith between Valard and LCMC;
 - (b) the estimated amount of twenty million Canadian Dollars (\$20,000,000 CDN) which represents the potential savings that may be possible from alternate foundation designs, which may or may not be included in the Agreement; and
 - (c) the cost of the performance security and the financing cost of the holdback to be provided under the Agreement.
- 5. The Parties acknowledge that the price in the Proposal for the ROW clearing and access construction scope of the Work can be significantly reduced from the original estimate of two hundred and seventy-three million three hundred thousand Canadian Dollars (\$273,300,000 CDN). LCMC and Valard will work collaboratively in order to optimize access and ROW clearing requirements and execution approaches in order to reduce this price for such scope of the Work, including all of the following:
 - (a) LCMC and Valard will work to define the preferred execution approach for such scope of Work, including evaluating all viable options including Valard selfperforming, using third party clearing and access contractors, or other commercial alternatives.
 - (b) LCMC and Valard will work to reduce the total amount of Class C1 access road construction from the estimate of approximately one thousand one hundred and thirty (1,130) kilometres and resolve the aggregate price below the initial estimate of eighty thousand seven hundred Canadian Dollars (\$80,700 CDN) per kilometre.
 - (c) LCMC and Valard will evaluate timber density in order to optimize clearing methods and techniques (i.e. full harvest versus mulch) so as to reduce the aggregate price below the initial estimate of approximately seventeen thousand five hundred (\$17,500 CDN) per hectare.
 - (d) In the event of using such third party clearing and access contractors, these will be

- selected by Valard through bids using a procurement model agreed between LCMC and Valard. Such third party contracts will be in the name of Labrador-Island Link Limited Partnership, with direct payment obligations to such third party contractors, while Valard will manage their field activities.
- (e) Valard will act in the capacity of a construction manager and general contractor for all ROW clearing and access construction including providing camps, fuel, catering, medical support and health, safety and environment (HSE) programs for all third party contractors.
- (f) LCMC intends to augment Valard's management of such scope of Work by the assignment of key human resources to the joint LCMC/Valard organization.
- 6. LCMC and Valard will continue to collaborate in order to develop materials marshalling/staging and transportation plans for the Work that is in the best interest of both Parties.
- 7. LCMC and its Affiliates do not commit to award to Valard any other transmission works constructed by LCMC or its Affiliates or partners (including Emera Inc. and its Affiliates). However, Valard will maintain its targeted profit margin at nine percent (9.0%) or less in any proposals involving such works.
- 8. With respect to Valard's proposal as a response to the Request for Proposal No. CD0502 Construction of AC Substations, Valard will adjust its proposed price to reflect a nine percent (9.0%) target profit margin, subject to the negotiation and agreement of the Parties on the other contract terms.
- 9. The Parties will work together to explore opportunities for commissioning support that may be required by LCMC as part of the commissioning of the LCP.
- 10. Valard will establish, through its involvement in the LCP, a longer-term presence in the Province to provide operational capability in support of the industry's future capital and operational investment in the Province's electrical grid.
- 11. Subject to the Parties' good faith obligation as referenced in Clauses 1, 3 and 4 herein, neither Party shall be liable to the other whatsoever, on any basis, for such Party's failure to agree and execute an Agreement.
- 12. (a) This MOU shall come into force from the Effective Date and shall remain effective four (4) months thereafter, unless such expiry is extended by mutual agreement in writing by the Parties.
 - (b) Notwithstanding the foregoing, and without prejudice to any other rights or remedies available to a Party under this MOU or at law, any Party may immediately terminate this MOU by giving the other Parties written notice if any such other Party is in breach or default of any material term or condition of this MOU and such party fails to commence to cure such breach or default within seven (7) days of receipt of written notice of such breach or default by the Party not in default. In addition, a Party may forthwith terminate this MOU in the event that another Party has been declared insolvent or bankrupt or has

filed a petition in bankruptcy or made any arrangement or trust mortgage for the benefit of creditors, or if a receiver, a liquidator, a guardian, a conservator, trustee in bankruptcy or a similar body has officially been appointed by a competent court to take charge of all or part of such other Party's property or business.

- (c) Notwithstanding Clause 12(a), the following provisions of this MOU shall survive the termination or expiration of this MOU and remain in full force and effect for a period of seven (7) years from the date of termination or expiration:
 - (i) Clauses 7, 8, 9 and 10, subject to the conclusion of an Agreement pursuant to Clause 1 herein; and
 - (ii) Clause 16.
- (d) Notwithstanding Clause 12(a), the following provisions of this MOU shall survive the termination or expiration of this MOU and remain in full force and effect: Clauses 11, 14, 16, 17, 18, 22 and 24.
- 13. Each Party shall use all reasonable efforts to identify as soon as practically possible any Board of Directors approvals which may be required for the transactions contemplated by this MOU. This MOU shall be conditional upon such approvals.
- 14. Each Party agrees to bear its own expenses in negotiating and concluding an Agreement and this MOU, including but not limited to legal fees and fees of other advisors.
- 15. The NDA is incorporated in this MOU by reference and applies to all Confidential Information (as defined therein) disclosed by either Party to the other under or in connection with this MOU, with the Party disclosing Confidential Information being the Disclosing Party, as defined in the NDA, and the Party receiving Confidential Information being the Recipient, as defined in the NDA.
- This MOU shall be governed by, construed, interpreted and enforced in accordance with the substantive law of the Province of Newfoundland and Labrador, excluding any conflict of law principles. Each Party irrevocably submits to the exclusive jurisdiction of the Courts of the Province, and irrevocably waives any objection which it may have at any time to the forum of any proceedings brought in any such Court. Nothing in this MOU precludes either Party from enforcing in any jurisdiction any judgment, order or award obtained in such Court.
- 17. Unless otherwise provided, any notice, demand, request or communication under this MOU shall be deemed given when delivered either by email, hand, courier or mailed by certified mail to the following addresses:

Lower Churchill Management Corporation

Re: Lower Churchill Project 350 Torbay Road, Suite No. 2 St. John's, NL, Canada

A1A 4E1

Attn: Jason Kean

Email: jasonkean@lowerchurchillproject.ca

Quanta Services, Inc. 2800 Post Oak Blvd., Suite 2600 Houston, Texas, U.S.A. 77056-6175

Attn: B.J. Ducey, Vice President Email: bducey@quantaservices.com

Valard Construction LP Suite 301, 4209 99 Street Edmonton, AB, Canada T6E 5V7

Attn: Adam Budzinski, President Email: abudzinski@valard.com

Notices shall be effective upon actual receipt or deemed delivered seven (7) days after mailing. The designation and title of the person to be notified or the address of such person may be changed at any time by written notice given in accordance with this paragraph.

- 18. Notwithstanding anything to the contrary elsewhere in this MOU, in no event shall any Party or its representatives or Affiliates be liable to any other Party or its representatives or Affiliates in connection with this MOU for any loss of profit, loss of revenue, cost of capital, loss of opportunity, any indirect, punitive, exemplary or consequential damages regardless of whether such liability arises out of contract, tort (including negligence), strict liability, or otherwise.
- 19. The Parties acknowledge that they each have reviewed this MOU and have had access to legal counsel. Any rule of interpretation that would otherwise require any aspect of this MOU to be interpreted least favourably against the Party primarily responsible for its drafting shall not be employed in the interpretation of this MOU.
- 20. For the purposes of this MOU, each Party represents to the other that it has the power and authority to enter into this MOU, subject to Clause 13.
- 21. This MOU and its Attachments, and the documents listed and referenced therein, constitute the entire agreement and understanding among the Parties with respect to the subject matter hereof. This MOU cancels, replaces and supersedes all other previous verbal or written agreements among the Parties with respect to the subject matter hereof. Any waiver, modification or alteration or addition to this MOU or any of its provisions shall not be binding on any Party unless all Parties have agreed to it in writing. No such waiver shall preclude the Parties exercising such waiver from requiring the fulfillment of any obligations set out herein at any time in the future. The failure of a Party to insist upon its rights upon a breach of this MOU shall not however be deemed a waiver of such rights either with respect to that breach or any subsequent breach whether similar or dissimilar in nature.
- 22. The invalidity of any term, condition or stipulation of this MOU shall not affect the validity of the remaining terms, conditions or stipulations of this MOU or its validity.
- 23. No Party may, without the prior written consent of the other Parties (which consent may be withheld in the sole and absolute discretion of such Parties), assign, transfer, encumber, or otherwise dispose of or deal with all or any of its rights or obligations under this MOU or any interest therein.

- 24. Nothing in this MOU shall be construed as constituting the Parties as partners of each other.
- 25. This MOU may be executed in any number of counterparts each of which when executed and delivered shall be an original, but all counterparts together shall constitute one and the same instrument.

EXECUTED AS AN MOU:

For and on behalf of Lower Churchill Management Corporation

Name: Gilbert Bennett Title: Vice President

For and on behalf of Quanta Services, Inc.

Name: B.J. Ducey Title: Vice President

For and on behalf of Valard Construction LP, by its general partner Valard Construction 2008 Ltd.

Name: Adam Budzinski

Title: President

Execution Page to the Memorandum of Understanding effectively dated the 28th day of March, 2014 among Lower Churchill Management Corporation, Quanta Services, Inc. and Valard Construction LP.

Attachment 1

Liquidated Damages

- 1. The scheduled date of Substantial Completion is 30 June 2017.
- If Contractor achieves Substantial Completion within 15 days from the scheduled date of Substantial Completion (the "Expiry of the Grace Period"), no liquidated damages will apply.
- If Contractor achieves Substantial Completion between 16 and 45 days inclusive after the scheduled date of Substantial Completion (July 16, 2017 to August 15, 2017 inclusive), Contractor shall pay Company as liquidated damages \$350,000 CDN for each day of such failure after the Expiry of the Grace Period.
- 3. If Contractor achieves Substantial Completion 46 days after the scheduled date of Substantial Completion (August 16, 2017), or later, Contractor shall pay Company as liquidated damages \$750,000 CDN for each day of such failure.
- 4. Contractor's limit of liability for liquidated damages payable by Contractor to Company will be a maximum of ten percent (10%) of the Contract Price.
- All other terms and conditions regarding liquidated damages will be consistent, mutatis mutandis, with those of the Articles of the agreement between Labrador Transmission Corporation and Valard for the Construction of HVac Transmission Lines (MF to CF), effectively dated the 17th day of December 2013, being Agreement No. CT0319.

CIMFP Exhibit P-01886

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nalcor	Bidder Selection and Preliminary Award Recommendation	Rev. No.	Date
energy LOWER CHURCHILL PROJECT	CT0327 – CONSTRUCTION OF 350KV HVDC TRANSMISSION LINE	00	31-MAR-2014

ATTACHMENT 12

ESTIMATED CONTRACT VALUE AND COMPARISON TO BUDGET

HOLD-PENDING CONCLUSION OF FINAL AGAT.