EXHIBIT 2

COMPENSATION

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Appendices:

1 GENERAL

1.1. Company shall compensate Contractor for the Work, in accordance with the provisions of this Agreement. The Contract Price, as calculated in Appendix A - Schedule of Price Breakdown, shall consist of:

- the total of the Reimbursable Cost of Labour, and the Labour Overhead and Profit applied on a sliding scale based on its relationship to the Adjusted Target Cost of Labour; all in accordance with Section 3 of this Exhibit 2;
- the actual Travel Cost for Trades Labour as stipulated in the Project Labour Agreement between the Muskrat Falls Employer's Association Inc. and the Resource Development Trades Council of Newfoundland and Labrador (i.e. the "Project Labour Agreement"); all in accordance with Section 4.1 of this Exhibit 2 (these costs are flow through expenses without mark-up; travel time is not a reimbursable cost as per the Project Labour Agreement);
- the fixed lump sum amounts and unit prices as listed in the Non Labour Component of Appendix A - Schedule of Price Breakdown; all in accordance with Section 5 of this Exhibit 2; and
- any adjustment in compensation pursuant to Article 26 – Changes in the Work.

1.2. Contractor, in managing the Reimbursable Cost of Labour, shall:

- maintain timekeeping records on a daily basis for each member of the Contractor Group PLA Labour in a form satisfactory to Company which shall include number of hours paid, number of hours worked, type of work, work area, number of overtime hours, reason for the overtime, and such other information Company deems appropriate;
- make efforts consistent with the Standard of a Prudent Contractor to ensure the Reimbursable Cost of Labour is less than the Target Cost of Labour;
- manage the Work to the Standard of a Prudent Contractor managing a lump sum or fixed price contract;
- utilize the sections in the Project Labour Agreement to support high levels of labour productivity, including but not limited to Section 7.10 (Contractor Group's right to evaluate all persons to determine their level of competency, qualifications and physical and mental fitness to perform the required work), Section 18 (productivity enhancement through the utilization of work teams), Section 19.08 (ensure breaks are limited to the prescribed period - ten (10) minutes for an eight (8) hour shift and fifteen (15) minutes for a ten (10) hour shift), 19.09 (ensure Contractor Group employees are in attendance at their work location and prepared to commence work at the scheduled starting time, ensure such employees are only paid when they start work at their designated work location and ensure the Contractor Group workers are not at the designated brass points until the quit time (end of shift)) and Section 36 (commissioning to fully utilize the flexibility in choosing the type of worker(s), selecting the worker(s) and performing the Work to maximize

productivity);

- develop and fully implement a Labour Productivity Management Plan, as described in Section 3.2 of this Exhibit 2 and Section 2.4 of Exhibit 3 – Coordination Procedures;
- actively participate in meetings or programs requested by Company to facilitate Contractor's efforts in maximizing productivity; and
- maximize, where appropriate, Work that can be more cost effectively performed off Site.

1.3. All lump sum amounts, unit rates, reimbursable items and prices stated in this Exhibit 2 shall be fully inclusive of all amounts, rates and prices for Contractor's performance of the Work and all of its obligations under this Agreement.

1.4. Invoices shall be issued by Contractor in accordance with Article 12 – Compensation and Terms of Payment, this Exhibit 2 – Compensation, and Exhibit 3 – Coordination Procedures.

1.5. All lump sum amounts, unit rates, and prices stated in this Exhibit 2 shall be fully inclusive of all amounts for small tools, consumables and PPE as described in this Exhibit 2, Appendix C – Small Tools, Consumables and PPE.

1.6. The currency of payment of the Agreement is Canadian dollars (CAD).

1.7. The Contract Price is comprised of the Labour Component (Section 3), the Travel Cost for Trades Labour (Section 4) and the Non Labour Component (Section 5) as set out herein.

1.8. Unless otherwise noted, all lump sum amounts, unit rates, reimbursable items and prices stated in this Exhibit 2 are exclusive of HST.

2 DEFINITIONS

The definitions below shall apply to this Exhibit 2 including its Appendices.

"**Adjusted Target Cost of Labour**" or **"ATCL"** means the Target Cost of Labour adjusted for the effect of Change Orders issued to adjust the quantities of the unit Price Items in Appendix A - Schedule Of Price Breakdown or issued as a result of a Change Request Approved by Company after the Effective Date, and reconciled after the issuance of the Final Completion Certificate for the actual quantities installed of each unit Price Item in Appendix A - Schedule of Price Breakdown. The Adjusted Target Cost of Labour at any time after the Effective Date is the summation of the Target Cost of Labour and the estimated Reimbursable Cost of Labour related to each issued Change Order. For greater certainty, the Target Cost of Labour shall be adjusted for Change Orders once Approved by Company.

Notwithstanding the above, the Adjusted Target Cost of Labour shall not be adjusted for Less Than Threshold Changes. The ATCL adjustment mechanism outlined in Section 6.3(a) shall only be employed for a Change that is over the LTTC threshold. The Parties expect that the Work will experience a reasonable level of LTTC's and agree that these LTTC's shall be excluded from the ATCL adjustment mechanism outlined in Section 6.3(a). This exclusion shall not apply to: (a) Changes in quantities in accordance with Section 5.7, or (b) Changes in design made by Company.

"**Demobilization**" means all amounts for all activities associated with the removal and transportation of Contractor's Items and Contractor's Personnel from the Site to a location of Contractor's choosing. Contractor will be eligible to submit a Payment Certificate for Demobilization following issuance of the Substantial Completion Certificate.

"**Disallowed Items**" means:

- any PLA Labour amounts in excess of what would be expended by a Contractor performing to the Standard of a Prudent Contractor while managing a lump sum or fixed price contract;
- subject to a written notice from Company's Site representative to Contractor's Site representative followed by a five (5) day period, any PLA Labour amounts incurred by Contractor (after the expiration of such period) as a result of not utilizing the sections in the Project Labour Agreement included to maximize labour productivity; provided however that PLA Labour amounts incurred prior to the expiration of such period would not be disallowed;
- any PLA Labour amounts incurred to settle a grievance or potential grievance under the provisions of the PLA, except to the extent the grievance is caused by Company actions;
- For the installation of any permanent equipment, materials or products as part of the Work, any PLA Labour amounts incurred by Contractor in the performance of the elements of the Work that were agreed to be performed offsite as listed below:
  - Large bore piping (2" and above, butt welded) shop fabrication;
  - Shop fabrication of HVAC components and equipment (note that ductwork will be broken down and shipped flat ready for reassembly on site)
  - Shop assembly of Control panels;
  - Structural fabrication of landings for electrical and mechanical shafts;
- subject to a written notice from Company's Site representative to Contractor's Site representative followed by a five (5) day period, any PLA Labour amounts incurred by Contractor (after the expiration of such period) in the performance of activities associated with temporary facilities, site installation (Price Item number 2), construction aids, equipment maintenance or any other works which will not be included in the permanent Work, that can be more cost effectively performed off Site.
- any PLA Labour amounts incurred by Contractor to correct Work which has not been executed in accordance with the Technical Requirements prior to Final Completion;

- any PLA Labour amounts to satisfy Warranty obligations;
- any PLA Labour amounts incurred by Contractor in the preparation and resolution of a Claim, after a Company decision to proceed with a Change Order under Article 26.6, or after a Company decision under Article 26.8(b); or for anything related to Article 39 – Dispute Resolution;
- any PLA Labour amounts covered by insurance, or by an equipment service agreement;
- any PLA Labour amounts associated with the maintenance, repair and lubing of Contractor's Items used in Change Work; and
- PLA Labour amounts which cannot be reasonably justified from Contractor's records.

"**Equipment Cost**" means the total amount of Contractor's Items, excluding Materials Cost and those items included in the Price Item 'Site Installation', required to complete one unit of a Price Item and includes all amounts of overhead and profit for this price component. The Equipment Cost is included in the Non Labour Component of the Contract Price.

"**Labour Component**" means the Reimbursable Cost of Labour and Labour Overhead and Profit for all aspects of the Work for Contractor Group. For greater certainty, the Labour Component excludes travel costs and board associated with the Work.

"**Labour Overhead and Profit**" means the compensation for overhead and profit, which includes an allowance for head office personnel and profit, on the Reimbursable Cost of Labour, calculated in accordance with Section 3.4 of this Exhibit 2.

"Less Than Threshold Change" or **"LTTC"** means a Change which results in less than or equal to one hundred (100) PLA Labour Hours.

"**Manpower Cost**" is the total estimated cost of PLA Labour required to complete one unit of a Price Item.

"**Materials Cost**" means all amounts for Contractor supplied permanent materials to be incorporated into the Work, and all Contractor's Items and Contractor's Personnel required for the performance of the Work which are not included in the Labour Component or Equipment Cost, and includes all costs of overhead and profit for this price component. The Material Cost is included in the Non Labour Component of the Contract Price.

"**Mobilization**" means all amounts for all activities associated with the preparation and transportation of Contractor's Items and Contractor's Personnel to the Site ready to begin the performance of the Work at the Site, all to the satisfaction of Engineer. Mobilization shall include organizational and project management, equipment transportation, setting up and all preparation necessary for performing the Work, including all costs associated with Contractor's Personnel attending Engineer's safety orientation courses. Mobilization shall also include the submission and Acceptance for use (Code 1) of all documents in Exhibit 4 - Supplier Document

Requirement List ("SDRL") with Submission Requirement Date of ARO+8 or lower.

"**Non Labour Component**" means all amounts, including overhead and profit which are required to perform the Work, excluding the Labour Component. The Non Labour Component includes Materials Cost and Equipment Cost.

"**PLA Labour**" means all Contractor Group's Personnel on Site who perform Work and are covered under the Project Labour Agreement.

"**PLA Labour Hours**" means the estimated number of PLA Labour hours required to complete one unit of a Price Item.

"PPE" means personal protection equipment.

"**Price Item**" means the price item as numbered in Appendix A - Schedule of Price Breakdown and Appendix K – Rates for Changes. Each Price Item includes a Labour Component and a Non Labour Component.

"**Productivity Factor**" is determined by the calculation, "Earned/Actual", where "Earned" means the completion of units of a Price Item, weighted by PLA Labour Hours (as specified in Appendix A – Schedule of Price Breakdown), as Accepted by Engineer and "Actual" means the actual hours expended by PLA Labour in the completion of the units of a Price Item, as recorded on Engineer Approved timesheets.

"**Project Labour Agreement" or "PLA**" has the meaning ascribed thereto in Section 10 of this Exhibit 2.

"**Reimbursable Cost of Labour**" means the cost of Wages and Benefits, both direct and indirect, paid by Contractor Group to PLA Labour in the execution of the Work less the amounts for Disallowed Items.

"**Site Installation**" means all temporary buildings needed for the Work, but not involved directly in its execution, including Site offices, lunch trailers, wash cars, warehouses, enclosures, stores, garage, carpenter shop, workshops, laboratories and the like; it also includes the furniture needed for the offices (desks, chairs, bookcases, etc.) and the equipment normally needed to make each of the other buildings fully functional for its purpose.

"Staff Labour" mean's Contractor's Personnel, other than PLA Labour, involved in the performance of the Work at Site, and includes all other amounts associated with Staff Labour performing Work on Site. Staff Labour is included in the Materials Cost.

"**Target Cost of Labour**" means Contractor's estimate of the Reimbursable Cost of Labour for the performance of the Work, being the summation of the Manpower Cost for all lump sum and unit Price Items as listed in Appendix A - Schedule of Price Breakdown. The Target Cost of

Labour includes adjustment of the Wages and Benefits subject to Section 15 herein.

"**Travel Cost for Trades Labour**" means the actual cost, without any markups or burdens applied, of travel allowances and travel expenses of the PLA Labour working at Site, applied strictly in accordance with the Project Labour Agreement. Travel Cost for Trades Labour is included in the Materials Cost.

"**Wages and Benefits**" means compensation paid by Contractor to PLA Labour, at the rates set out in Appendix D – Personnel Rates Schedule, in accordance with the Project Labour Agreement and includes the government burdens associated with such Wages and Benefits which Contractor is required to pay for Canada Pension Plan (CPP), Canada Employment Insurance (EI), Newfoundland Health and Post-Secondary Education (HAPSET), and Newfoundland Workplace, Health, Safety and Compensation (WHSCC). Wages and Benefits do not include: 1) any mark-up or profit of any kind, bonuses, incentives or special allowances paid to the PLA Labour; 2) tax equalization payments for PLA Labour.

3 LABOUR COMPONENT

3.1 The provisions of this Section 3 define the total compensation for the Labour Component of Price Items, and the Labour Component includes the Reimbursable Cost of Labour and the Labour Overhead and Profit applied on a sliding scale based on its relationship to the Adjusted Target Cost of Labour.

3.2 Reimbursable Cost of Labour

As full compensation for the Labour Component, and subject to Sections 3.3 to 3.4 of this Exhibit 2, Company will pay Contractor the total of the Reimbursable Cost of Labour, and the Labour Overhead and Profit.

A summary report of daily time sheets shall be prepared by Contractor showing breakdown of hours in accordance with Company's costing system and listing the names, category, hours worked (differentiating straight time and overtime), type of work, work area and reasons for overtime, for each member of PLA Labour. This summary report, including supporting Contractor representative signed timesheets, shall be submitted daily to Engineer for checking and Approval. Contractor shall also submit on a weekly basis a report which summarizes all Reimbursable Cost of Labour incurred during the week as reported via the daily summary reports. The content and format of this weekly summary shall be Accepted by Engineer and, at a minimum, shall contain a breakdown of hours in accordance with Company's costing system and listing the names for PLA Labour, category, hours worked (differentiating straight time and overtime), type of work, work area and reasons for overtime and the Reimbursable Cost of Labour. The weekly report shall also include supporting data collected from Contractor's brassing (time card) system for the week being reported.

Contractor shall submit a cost management plan, as required under Section 6 of Exhibit 3 – Coordination Procedures. The plan shall incorporate the requirements of this Section 3 and such other elements that may be required by Company to ensure that costs charged to Company are in accordance with this Agreement and have actually been paid by Contractor.

Contractor shall submit to Company a Labour Productivity Management Plan for the PLA Labour requirements for the Work as particularly set out in Appendix I – Estimated PLA Labour Hours by Trade, which plan shall incorporate the obligations of Contractor in Section 1.2 of this Exhibit 2 and Section 2.4 of Exhibit 3 – Coordination Procedures, and any other initiatives Contractor may utilize to ensure labour productivity opportunities are maximized. PLA Labour shall not be mobilized to Site until the Labour Productivity Management Plan is Accepted by Engineer.

3.3 Target Cost of Labour

3.3.1 As of the Effective Date, the Target Cost of Labour is $63,920,703.06.

3.3.2 An Adjusted Target Cost of Labour shall be calculated with the issuance of each applicable Change Order and will be reconciled prior to the issuance of the Final Completion Certificate.

3.3.3 Contractor shall be compensated for the Reimbursable Cost of Labour at the rates set out in Appendix D – Personnel Rate Schedule – PLA Labour, as adjusted in accordance with Section 15.1 herein.

3.4 Labour Overhead and Profit

3.4.1 Labour Overhead and Profit shall be applied to the Reimbursable Cost of Labour on a sliding scale based on its relationship to the ATCL. The Labour Overhead and Profit multiplier shall be applied to the portions of the Reimbursable Cost of Labour falling within the bands as set out in Table 1 below. The Labour Overhead and Profit shall be calculated in accordance with Appendix F – PLA Labour Overhead and Profit Application.

TABLE 1

Reimbursable Cost of Labour Overhead and Application of Overhead and Profit Banding	**Overhead and Profit Multiplier**
0 to ATCL	0.13
Greater than ATCL less than or equal to ATCLx1.17	0.07
Greater than ATCLx1.17 less than or equal to ATCLx1.34	0.03

Reimbursable Cost of Labour Overhead and Application of Overhead and Profit Banding	Overhead and Profit Multiplier
Greater than ATCLx1.34 less than or equal to ATCLx1.51	0.00
Greater than ATCLx1.51 less than or equal to ATCLx1.68	-0.23
Greater than ATCLx1.68 less than or equal to ATCLx1.85	-0.56
Greater than ATCLx1.85 less than or equal to ATCLx2.02	-0.07
Greater than ATCLx2.02	-0.07

3.4.2 Labour Overhead and Profit shall be paid monthly based on the actual amount of PLA Labour incurred in the month being invoiced.

3.5 Billing Information

The Reimbursable Cost of Labour and associated Labour Overhead and Profit shall be paid monthly based on the actual amount of billable PLA Labour paid in the payment period being invoiced. Contractor will submit Billing Information to coincide with Contractor's payroll cycle for Company review and Approval. The Approved Billing Information will form the basis of the supporting documentation required when submitting a Payment Certificate and include, without limitation:

a) A summary of billable hours supported by the Company Approved daily timesheet summaries;

b) Detailed payroll reports sourced from Contractor's project management system and/or payroll and accounting system summarizing the billable PLA Labour and associated payroll burdens, in a form acceptable to Company;

c) Any other information Engineer may require to confirm the accuracy and completeness of Reimbursable Cost of Labour and associated Labour Overhead and Profit.

4 TRAVEL COSTS FOR TRADE LABOUR

4.1 Company shall in accordance with Exhibit 12 – Site Conditions reimburse Contractor at cost for Travel Cost for Trades Labour. Company shall not pay any mark-up on any Travel Cost for Trade Labour. An estimate of Travel Cost for Trades Labour, which is included in the Materials Cost, is contained in Appendix A - Schedule of Price Breakdown Price Item 4 – Travel Costs for Trade Labour.

4.2 For Contractor's Personnel not covered by the Project Labour Agreement working at Site or other Worksites, travel amounts are included in the Staff Labour value and as such are not subject to additional reimbursement under the Agreement.

5 NON LABOUR COMPONENT

5.1 This Section 5 covers the Non Labour Component of the Contract Price which is comprised of the lump sums and unit prices under the heading "Non Labour Component" as set out in Appendix A – Schedule of Price Breakdown.

5.2 For the purposes of progress payments, the total price of the Non Labour Component for each system, as identified in Appendix B – Milestone Payment Schedule and priced in Appendix A – Schedule of Price Breakdown, will be treated as a lump sum.

5.3 As a condition precedent of eligibility to submit applications for payment in accordance with Article 12 - Compensation and Terms of Payment, Contractor shall have a Company Approved schedule of values, which includes each system which is intended to act in conjunction with Appendix B – Milestone Payment Schedule, to provide for clear and straightforward criteria for progress payments of the Non Labour Component of each system. Subject to the Articles of Agreement and other provisions in this Exhibit 2, the schedule of values shall be used as the basis for Contractor's applications for payment. The schedule of values shall include the total price for the Non Labour Component of each system.

5.4 Measurement of progress of the Non Labour Component of the Work shall be undertaken on a monthly basis (or as otherwise required by Engineer) by Contractor in accordance with the schedule of values and Appendix B – Milestone Payment Schedule. Progress achieved, based on the Milestone Payment Schedule and schedule of values, and Accepted by Engineer shall form the basis of monthly progress payments which shall be documented on a Payment Certificate. Only Company Approved Payment Certificates shall form the basis of monthly invoices of Contractor.

5.5 Following Acceptance of completions certificates and the documents required by the SDRL for a system, Contractor will prepare a detailed take-off of the actual quantities of Work installed and revised values for each discipline within the system based on the as-built drawings and submit the detailed take-off and amended pricing to Company for Approval. Upon issuance of a Change Order, Contractor will invoice for any increase or credit in the system discipline value as set out in Appendix A – Schedule of Price Breakdown. For clarity the quantity adjustment shall only apply to the quantity of Price Items that are set out directly on Drawings or schedules provided in the Technical specifications, and like items or equivalent items installed as part of the Work are deemed to be included in other rates or prices unless added as a Change. For clarity, payment for Changes in quantities will be processed throughout the execution of the Work.

5.6 Lump Sum Price Items

5.6.1 The following provisions in this Section 5.6 apply only to Work priced on a lump sum basis. Lump sum Price Items are identified in Appendix A – Schedule of Price Breakdown under Unit of Measure as 'LS'.

5.6.2 The Non Labour Component of all of the lump sum Price Items stated in Appendix A – Schedule of Price Breakdown are fixed prices.

5.6.3 Each lump sum Price Item stated in Appendix A – Schedule of Price Breakdown shall include all elements necessary to achieve completion of the Price Item, including interconnection with other elements of the Work and to interface with materials provided by and work performed by Company Group as necessary to complete the Work, and to make all elements of the Work perform in accordance with the Technical Requirements, whether specifically identified or whether inherent in the Work. For greater certainty the lump sum Price Items listed in Appendix A – Schedule of Price Breakdown are intended only as a means of breaking down the Work for measurement and payment purposes and the fixed lump sum price includes all elements of Contractor's Items and Contractor's Personnel necessary to complete the fixed lump sum portion of the Work in accordance with the requirements of the Agreement.

5.7 Unit Price Items

5.7.1 The provisions in this Section 5.7 apply only to Work completed on a unit price basis. Unit Price Items are identified in Appendix A – Schedule of Price Breakdown under Unit of Measure as 'ea', 'each', 'Linear Meter', 'm', 'm2' or 'mm'.

5.7.2 All of the Price Items for Work completed on a unit price basis are stated in Appendix A – Schedule of Price Breakdown of this Exhibit.

5.7.3 The Non Labour Component of all of the unit Price Items stated in Appendix A – Schedule of Price Breakdown are fixed prices and include all amounts for overhead and profit; provided, however, quantities may be adjusted as stated in Section 5.7.5.

5.7.4 Each unit Price Item stated in Appendix A – Schedule of Price Breakdown shall include all elements necessary to achieve completion of the Price Item, including interconnection with other elements of the Work and to interface with materials provided by and work performed by Company Group as necessary to complete the Work, and to make all elements of the Work perform in accordance with the Technical Requirements, whether specifically identified or whether inherent in the Work. For greater certainty the unit Price Items listed in Appendix A – Schedule of

Price Breakdown are intended only as a means of breaking down the Work for measurement and payment purposes and the fixed unit price includes all elements of Contractor's Items and Contractor's Personnel necessary to complete the fixed unit price portion of the Work in accordance with the requirements of the Agreement.

5.7.5 Quantities of units estimated in Appendix A – Schedule of Price Breakdown are not fixed, as independent circumstances shall control actual quantities installed. Payment for unit Price Items shall only be for the actual quantities of Work completed in accordance with the Agreement and not estimated quantities. There will be no adjustment of any unit price due to variances from the estimated quantities (whether increases/decreases).

6 REIMBURSABLE CHANGE ORDERS

6.1 The following provisions in this Section 6 apply only to Work resulting from a Change Order which has been determined to be completed on a cost reimbursable basis.

6.2 This Section 6, with the exception of Section 6.3 (a), is to be interpreted in accordance with Articles 26.10 and 26.11 of this Agreement.

6.3 Full compensation to Contractor for complete performance of any Change Order performed on a reimbursable basis shall be the sum of the following costs and mark-ups:

(a) The total Reimbursable Cost of Labour for PLA Labour working directly on the Work of the Change Order calculated using the applicable rates in Appendix D – Personnel Rate Schedule; the Reimbursable Cost of Labour for the Change Order shall be added to or subtracted from the Adjusted Target Cost of Labour. A mark-up of thirteen percent (13%) for Labour Overhead and Profit shall be applied to the Reimbursable Cost of Labour for the Change Order;

(b) For Contractor's equipment working directly on the Work of the Change Order, the sum of Contractor's equipment rates, as detailed in Appendix E – Equipment Rate Schedule, multiplied by Accepted hours of use as detailed on timesheets; these rates include for profit and overhead, and consequently they shall be treated as meeting the requirements of Article 26.10 (a); and

(c) Pre-Accepted Materials Cost, travel and mileage expenses, and third party expenses necessary to perform the Change Order.

Contractor shall advise Company in writing when it has expended seventy-five percent (75%) of the total estimated price for any item of Change Work to be compensated on a reimbursable basis, along with a forecast of the cost to complete the item of Change Work.

The Contractor shall not be compensated for any Contractor's Personnel not identified in

Appendix D – Personnel Rate Schedule or a Change Order issued by Company.

6.4 Subject to Company pre-Approval, when Contractor purchases materials on a reimbursable basis:

(a) All actual costs to Contractor for materials supplied for incorporation into the permanent facility to which the Change Work applies (including those costs related to transportation to the Site) shall be at actual invoiced cost to Contractor (exclusive of HST) as substantiated by invoices certified as paid or by such documentation as may be required by Company, plus a mark-up of thirteen percent (13%) for Contractor overhead and profit.

(b) To be eligible for reimbursement, invoicing for third party supplied materials shall be fully supported by Billing Information and any other documentation that Engineer may reasonably require.

(c) Company reserves the right to provide, at no cost to Contractor, materials, equipment, services, supplies or incidentals required to perform the Change Work.

(d) This Section does not include consumables, personal protection equipment, and small tools which cost Contractor less than $2,000 Canadian dollars; all as illustrated in Appendix C – Small Tools, Consumables and PPE. These are covered under Section 6.3 (a).

6.5 Subject to Company pre-Approval, when Contractor supplies equipment on a reimbursable basis:

(a) All costs of Contractor for Contractor-owned equipment shall be at the rates set forth in Appendix E – Equipment Rate Schedule.

(b) When Contractor's equipment does not resemble the equipment having rental rates listed in Appendix E – Equipment Rate Schedule, the rate of such equipment shall be determined insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Government of Newfoundland and Labrador, Department of Works, Services and Transportation, Highway Design Division's Form 1000 entitled "Newfoundland Equipment Rental Schedule" at the time of the Effective Date.

(c) All costs of Contractor, exclusive of HST, for equipment which is rented from third parties and does not resemble the equipment having rental rates listed in Appendix E – Equipment Rate Schedule must be Accepted prior to rental and shall be at actual cost, exclusive of HST, to Contractor, including transportation to the Site, as substantiated by invoices certified paid or by such documentation as may be required by Company, plus a mark-up of thirteen percent (13%) for Contractor overhead and profit.

(d) To be eligible for reimbursement, invoicing for third party equipment shall be

fully supported by Billing Information and any other documentation that Engineer may reasonably require.

(e) For reimbursable Change Work, Company reserves the right to substitute and provide, at no cost to Contractor, equipment to perform the Change Work. Contractor shall not be allowed to claim for loss of profit and/or any other of its own costs resulting from such substitution by Company.

6.6 Subject to Company pre-Approval, when Contractor requires third party services to assist with Change Work being performed on a reimbursable basis:

(a) Contractor shall secure pre-Acceptance of any third party services, materials, tools, supplies and consumables that are required for the performance of the Change Work and are additional to that which is included in Appendix A - Schedule of Price Breakdown, unit prices and lump sum amounts, rates and prices outlined herein. Company shall reimburse Contractor for the actual, documented and necessary costs (exclusive of HST), plus a mark-up of thirteen percent (13%) for Contractor overhead and profit, of such materials, tools, supplies, consumables, equipment and/or services.

(b) In no instance shall the third party rates plus mark-up exceed Contractor's rates for similar work or equipment.

(c) To be eligible for reimbursement, invoicing for third party services shall be fully supported by Billing Information and any other documentation that Engineer may reasonably require.

6.7 Travel Cost for Trades Labour will be treated in accordance with Section 4.

6.8 For all Change Work carried out on a reimbursable basis, Contractor shall prepare time sheets, using the rates listed in Appendix D – Personnel Rate Schedule and equipment rates listed in Appendix E – Equipment Rate Schedule, and identifying the material and third party services assigned to the performance of the Change Work, which will be provided daily to the Engineer for Acceptance.

6.9 When Contractor uses materials, equipment and/or services of any of its Affiliates or any Person with which Contractor has a non-arm's length relationship (including but not limited to common ownership, subsidiary, strategic partner or licensee) to undertake reimbursable Change Work, then Contractor shall be entitled to charge Company the actual documented base cost of such Affiliate or Person (as the case may be) for such materials, equipment and/or services, subject to the removal of any element of overhead and/or profit, plus a mark-up of thirteen percent (13%).

6.10 Contractor shall include requests for compensation for Change Work performed on a reimbursable basis on a fully documented Payment Certificate applicable to the time period in which the reimbursable Change Work was performed.

6.11 For all Change Work carried out on a reimbursable basis and to be performed by third party suppliers or service providers, Contractor shall solicit a minimum of three bids for material purchases of $25,000.00 Canadian and greater. Contractor shall select the qualified bidder with the lowest bid unless otherwise directed and/or Accepted by Engineer. Contractor's procurement process for all Change Work carried out on a reimbursable basis shall be subject to Acceptance. At Engineer's request, all received bids and bid evaluation information, including Contractor's award recommendation, shall be made available to Engineer prior to award.

7 OPERATING SPARES

7.1 Appendix H - Operating Spares Price Schedule of this Exhibit 2, details Contractor's recommended two (2) year operational spares and the associated unit prices. For the Term of the Agreement, Company may, at its sole discretion, purchase any number and any type of operational spares listed in Appendix H – Operating Spares Price Schedule at the unit prices outlined therein.

7.2 The unit prices specified shall include all amounts associated with design, manufacture, testing, preservation, storage, transport and delivery of the spares and all associated documentation. Spares shall be delivered to the Site in accordance with Incoterms 2010, Delivered Duty Paid (DDP). Supply shall be deemed to be complete upon delivery of the operational spares and all associated documentation.

7.3 Company will issue a Change Order to Contractor covering all purchases of operating spares.

8 CHANGES

8.1 Compensation for a Change shall be determined in accordance with the Articles of Agreement, this Exhibit 2 and Exhibit 3 – Coordination Procedures. Rates and prices outlined in Appendix A - Schedule of Price Breakdown, Appendix K – Rates for Changes, Appendix D - Personnel Rate Schedule, the Project Labour Agreement and Appendix E - Equipment Rate Schedule will apply for both increases and decreases in the Work.

8.2 Each Price Item stated in Appendix K – Rates for Changes shall include all elements necessary to achieve completion of the Price Item including interconnection with other elements of the Work and to interface with materials provided by and work performed by Company Group as necessary to complete the Work and to make all elements of the Work perform in accordance with the Technical Requirements, whether specifically identified or whether inherent in the Work. For greater certainty the Price Items listed in Appendix K – Rates for Changes are intended only as a means of breaking down the Work for measurement and payment purposes, and the unit price includes all elements

of Contractor's Items and Contractor's Personnel necessary to complete the Work relating to such Price Item in accordance with the requirements of the Agreement. To the extent that some aspects of a Change Order may be performed off of the Site, the Labour Component and/or Equipment Cost components of a Price Item may not apply.

For example, where there is a unit price per meter of piping in Appendix K – Rates for Changes, the rate includes all costs of Contractor's Personnel for planning and execution of the Work, all of Contractor's Items including Materials Cost (including pipe, fittings, hangers, supports, fasteners, seals, and the like) as required, Equipment Cost (including fitting equipment, fabrication equipment, materials handling, inspection equipment, consumables and the like) and overhead and profit as necessary to fabricate and install the piping spool in accordance with the Technical Requirements. The same logic shall be applied to each Price Item in Appendix K – Rates for Changes.

8.3 To the extent rates and prices in Appendix A – Schedule of Price Breakdown, Appendix K – Rates for Changes or elsewhere in this Exhibit 2 do not apply to a Change, such Change shall be evaluated and agreed by the Parties on the basis of a reasonable estimate of the Reimbursable Cost of Labour for the Change, and a fixed price adjustment to the Non Labour Component.

8.4 Each Change Order issued shall record the estimate of the Reimbursable Cost of Labour for the Change, the fixed price for the Non Labour Component for the Change, and the Adjusted Target Cost of Labour as a result of that Change Order.

Where any Work relating to a Change that has been Approved by Company, but Company and Contractor have not agreed on a price for such Change Work:

(a) the adjustment to the Contract Price shall be in accordance with the provisions of the Articles of this Agreement; and

(b) for the purpose of Article 26.10(b)(i) of this Agreement, the allowance referenced therein shall be the total of:

(i) the percentage amount stated in Section 6.4(a) for purchased materials;

(ii) the percentage amount stated in Section 6.5(c) for supplied equipment;

(iii) the percentage amount stated in Section 6.6(a) for third party services;

(iv) an amount in accordance with Section 6.3(a) for the Labour Component;

but only if, and to the extent that, purchased materials, supplied equipment, third party services and/or labour are required for such Change Work and Approved by Company.

9 STANDBY TIME

9.1 When Company directs Contractor to temporarily cease performance of any aspect of the Work for a reason that is not related to Contractor's performance of the Work or

weather, the following provisions will apply:

(a) Company will pay Contractor for stand-by time of:

(i) equipment, other than rented equipment and operated rented equipment, at fifty percent (50%) of the applicable rate stated in Appendix E - Equipment Rate Schedule; and

(ii) rented equipment and operated rented equipment at one hundred percent (100%) of the lessor's invoice price;

where it is necessary to retain the equipment in the Work area for extended periods as Approved by Company.

(b) For all standby time Approved by Company, Contractor shall prepare daily time sheets for all labour (PLA Labour and Staff Labour) and equipment assigned to the performance of the Work, which will be reviewed, and if Accepted, signed by the Engineer. For greater certainty, Staff Labour time sheets are for records purposes only, and Contractor shall only be entitled to an adjustment to compensation for Staff Labour to the extent the Exhibit 9 - Milestone Date M-UN4-1 and/or the Final Completion date is adjusted. Copies of time sheets shall accompany all Contractor invoices.

(c) Standby time for PLA Labour shall be in the minimum amount in accordance with section 21 (Reporting Time) of the Project Labour Agreement.

(d) Pursuant to Section 9.1(a), payment for equipment standby will be limited to the applicable monthly, weekly or daily rate, the proration of which shall be applied once within a twenty-four hour period or forty hours in a week.

Notwithstanding the above, no compensation will be allowed for equipment that is inoperable due to breakdown, unavailability or the like. No payment will be allowed for equipment that is not operating because the Work has been delayed or suspended by Contractor for its own reasons.

10 PROJECT LABOUR AGREEMENT

A Special Project Order ("SPO") has been enacted to bring into effect a Collective Agreement between the Muskrat Falls Employers' Association Inc. and the Resource Development Trades Council of Newfoundland and Labrador ("Project Labour Agreement" or "PLA"), which is included in Exhibit 11 - Company Supplied Documents, as well as a summary of its key provisions.

Contractor shall be bound to the terms of the PLA for the duration of its work under the PLA, become a member of the Muskrat Falls Employers' Association, designate in writing staff persons to be the Contractor's representative and his/her alternate for all Muskrat Falls Employers' Association meetings, ensure Contractor is represented at all Muskrat Falls Employers' Association meetings and designate in writing at least one (1) staff person to be responsible for daily labour relations matters at the Site. Prior to working at Site, all

Contractor's Personnel will be required to attend an LCP Site orientation session that includes: health, safety and environment obligations; human resources policies, including respectful workplace, cultural sensitivity, gender equity and diversity; and labour relations, including PLA overview, Site standards, corrective action and dispute resolution.

11 COMPENSATION

11.1 Pursuant to Article 12.3, Contractor shall invoice each month: for the Reimbursable Cost of Labour and the Travel Costs for Trades Labour incurred in that month; for the associated Labour Overhead and Profit for the month; and for the actual progress on the Non Labour Component for the month.

12 MILESTONE PAYMENT SCHEDULE

12.1 Company will pay Contractor monthly, in accordance with Appendix B – Milestone Payment Schedule, for actual costs incurred and progress achieved. Appendix J - Monthly Payment Forecast Schedule of this Exhibit 2 includes the Monthly Payment Forecast Schedule. This Schedule is meant as a forecast only. Contractor shall update the Monthly Payment Forecast Schedule as on a monthly basis, to keep it current.

13 PERFORMANCE SECURITY

13.1 Contractor will be compensated in accordance with Appendix B – Milestone Payment Schedule for the performance security required under Article 7 of this Agreement, at the rate specified in the table below 13.2.

13.2 Contractor will be compensated in accordance with Appendix B – Milestone Payment Schedule for performance security, provided in the value of an advance payment of up to 10% of the Materials Cost and Equipment Cost components of Contract Price and in the form set out in Exhibit 14 – Performance Security of this Agreement, at the rate specified below.

Performance Security Type	Rate
Letter Of Credit	Fixed rate of 3% of letter of credit value per year

14 LIQUIDATED DAMAGES FOR DELAY

14.1 If Contractor fails to deliver that part of the Work to achieve any of the following Milestones (as stated in this Section 14) by the date specified for such Milestone in Exhibit 9 - Schedule, Contractor shall pay Company as liquidated damages the full amount stipulated for that Milestone for each day, including any part thereof, of the delay of that Milestone, from the date the delay commenced to the date the Milestone is achieved, as

more particularly described below, subject to the liability limit referred to in Article 36.2 of this Agreement, unless the failure to achieve the Milestone is due to an event of Force Majeure or otherwise excused under the Agreement.

(a) If Contractor achieves the below specified Milestone within 15 days of the applicable Milestone Date set out in Exhibit 9 – Schedule, no liquidated damages will apply regarding such Milestone.

(b) If Contractor achieves the below specified Milestone between 16 and 45 days inclusive after the applicable Milestone Date set out in Exhibit 9 – Schedule, Contractor shall pay Company as liquidated damages the amount specified in Table 2 – Column (b) regarding such Milestone, for each day (or part thereof) of such failure during this time period.

(c) If Contractor achieves the below specified Milestone between 46 and 60 days inclusive after the applicable Milestone Date set out in Exhibit 9 – Schedule, Contractor shall pay Company as liquidated damages the amount specified in Table 2 – Column (c) regarding such Milestone, for each day (or part thereof) of such failure during this time period.

(d) If Contractor achieves the below specified Milestone 61 days after the applicable Milestone Date set out in Exhibit 9 – Schedule, or later, Contractor shall pay Company as liquidated damages the amount specified in Table 2 – Column (d) regarding such Milestone, for each day (or part thereof) of such failure during this time period.

TABLE 2

Milestone #	Milestone Description	(a) Liquidated Damages per day	(b) Liquidated Damages per day	(c) Liquidated Damages per day	(d) Liquidated Damages per day
M-UN1-1	Unit 1 CH0031 Work Required In All Areas To Commission (dry test) Unit 1 complete, and ready for integrated testing with Company's Other Contractors, in accordance with the Technical Requirements.	$0.00	$56,250.00	$75,000.00	$125,000

Milestone #	Milestone Description	(a) Liquidated Damages per day	(b) Liquidated Damages per day	(c) Liquidated Damages per day	(d) Liquidated Damages per day
M-GEN-1	CH0031 Work for Units 1-4 Intake gates complete and ready for integrated testing with Company's Other Contractors, in accordance with the Technical Requirements.	$0.00	$56,250.00	$75,000.00	$125,000
M-UN2-1	Unit 2 CH0031 Work Required To Commission (dry test) Unit 2 complete, and ready for integrated testing with Company's Other Contractors, in accordance with the Technical Requirements.	$0.00	$18,000.00	$26,000.00	$40,000
M-UN3-1	Unit 3 CH0031 Work Required To Commission (dry test) Unit 3 complete, and ready for integrated testing with Company's Other Contractors, in accordance with the Technical Requirements.	$0.00	$18,000.00	$26,000.00	$40,000
M-UN4-1	Unit 4 CH0031 Work Required To Commission (dry test) Unit 4 complete, and ready for integrated testing with Company's Other Contractors, in accordance with the Technical Requirements.	$0.00	$18,000.00	$26,000.00	$40,000

15 CONTRACT PRICE ADJUSTMENT

15.1 PLA Labour

PLA Labour shall be subject to adjustment in accordance with the Project Labour Agreement (PLA).

The Adjusted Target Cost of Labour is deemed to include adjustments associated with the PLA up to and including 1st day of May, 2018. In the event any portion of the Work subject to Adjusted Target Cost of Labour continues after the 1st day of May, 2018, the portion of the Adjusted Target Cost of Labour that will be performed after 1-May-2018 will be adjusted upwards or downwards in proportion to changes in PLA rates.

16 NEUTRAL FUNDING

16.1 Company and Contractor agree to establish cash forecasting and advance funding procedures that will result in a neutral funding arrangement for Reimbursable Cost of Labour and Labour Overhead and Profit (LOH&P).

16.2 No earlier than thirty (30) days prior to the 25th of each month, Contractor shall prepare and submit a neutral funding invoice covering the applicable payment period, in a format and detail acceptable to Company, supported by the following:

(a) Company Approved cash forecast representing the forecasted amount of Contractor's cost related to Reimbursable Cost of Labour and the associated LOH&P for the applicable payment period.

(b) Company Approved Productivity Factor (PF) calculated for the immediate preceding payment period. For purposes of calculating neutral funding amounts the Productivity Factor will not exceed 1.

(c) In the event the PF falls below 1, at Company's sole discretion, the amount of neutral funding will be determined by the following calculation:

Neutral Funding = Cash Forecast × Productivity Factor

16.3 Company shall process and pay Contractor's neutral funding invoice within thirty (30) days of receipt. Funding arrangements will be reviewed periodically to ensure that the desired results are achieved.

16.4 All neutral funding provided to Contractor shall be offset against the Contractor's invoice for the corresponding payment period. Where funding to Contractor by Company exceeds Contractor's invoiced amount associated with Reimbursable Cost of Labour and LOH&P, such excess shall be deducted from amounts owing to Contractor.

Where the funding to Contractor by Company is less than Contractor's invoiced amount associated with Reimbursable Cost of Labour and LOH&P, the difference shall be paid to Contractor within thirty (30) days of invoice receipt by Company, subject to Contractor's compliance with Article 12 – Compensation and Terms of Payment, Exhibit 2 – Compensation and Exhibit 3 – Coordination Procedures.

16.5 Contractor shall make best efforts to provide accurate estimates of the Reimbursable Cost of Labour. If neutral funding to Contractor by Company for Reimbursable Cost of Labour and LOH&P regularly exceeds Contractor's actual invoiced amounts associated with Reimbursable Cost of Labour and LOH&P, Company retains the right to modify or cease neutral funding arrangements.

16.6 Company reserves the right to reduce the neutral funding invoice amount should the forecasted amount of Contractor's Reimbursable Cost of Labour and LOH&P change subsequent to submission of the neutral funding invoice.

16.7 The aggregate amount of neutral funding shall not exceed the Target Cost of Labour unless otherwise Approved by Company; at its sole discretion.

APPENDIX A

SCHEDULE OF PRICE BREAKDOWN

APPENDIX A

SCHEDULE OF PRICE BREAKDOWN

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
		GENERAL														
1	0000.01	Mobilization	LS	1.0	8157.0	737,435.95	8,156.95	95,866.67	95,866.67	737,435.95	143,108.02	143,108.02	940,697.35	940,697.35	1,917,108.00	1,917,108.00
2	0000.02	Site Installation	LS	1.0	0.0	0.00	0.00	0.00	0.00	0.00	465,787.59	465,787.59	3,625,777.29	3,625,777.29	4,091,564.88	4,091,564.88
3	0000.03	Demobilization	LS	1.0	4945.3	447,080.86	4,945.27	58,120.51	58,120.51	447,080.86	86,294.74	86,294.74	298,523.63	298,523.63	890,019.74	890,019.74
PM	Added	Staff Labour	LS	1.0	0.0	0.00	0.00	0.00	0.00	0.00	34,202,483.60	34,202,483.60	0.00	0.00	34,202,483.60	34,202,483.60
4		Estimate of Travel Cost for Trades Labour	Estimate	1.0							54,975,871.23	54,975,871.23			4,975,871.23	4,975,871.23
4c		Letter of Credit - Work - Agreement Article 7.1(a) (Calculated using Contract Price excluding items 4c and 4d)	LS	1.0							$2,697,437.90	$2,697,437.90			2,697,437.90	2,697,437.90
4d		Letter of Credit - Warranty Period - Agreement Article 7.1(b) (Calculated using Contract Price excluding items 4c and 4d)	LS	1.0							$851,822.49	$851,822.49			851,822.49	851,822.49
ST01		**SUB-TOTAL INDIRECT COSTS (GENERAL)**					13102.2		$153,987.19	$1,184,516.81		$42,570,983.08		$4,864,998.26		$48,774,485.34
		PIPING/MECHANICAL SYSTEMS														
		PIPING/MECHANICAL - DESIGN AND ENGINEERING														
5	3343.010	WFS (Fire Protection Water)	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	122,570.22	122,570.22	370.34	370.34	122,940.55	122,940.55
6	3310.010	Mechnical Shaft Platform/Staging Design and Engineering	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	109,437.69	109,437.69	330.66	330.66	109,768.35	109,768.35
ST02		**SUB-TOTAL PIPING/MECHANICAL - DESIGN AND ENGINEERING**					0.0		$0.00	$0.00		$232,007.91		$701.00		$232,708.91
		PIPING/MECHANICAL - SUPPLY AND INSTALLATION														
		WPS (Domestic Water)														
7	3352.001	Water treatment plant: Sand & Antracite Filter 3352-FR-6000	ea	1.0	114.8	10,376.75	114.8	1,348.98	1,348.98	10,376.75	206,799.93	206,799.93	44,072.85	44,072.85	262,598.51	262,598.51
8	3352.002	Water treatment plant: Anionic Exchanger 3352-FR-6001	ea	1.0	114.8	10,376.75	114.8	1,348.98	1,348.98	10,376.75	317.47	317.47	2,502.62	2,502.62	14,545.81	14,545.81
9	3352.003	Water treatment plant: Anionic control Panel 3352-CP-6001	ea	1.0	15.9	1,440.41	15.9	187.25	187.25	1,440.41	300.30	300.30	398.97	398.97	2,326.93	2,326.93
10	3352.004	Water treatment plant: Activated Carbon Filter 3352-FR-6002	ea	1.0	114.8	10,376.75	114.8	1,348.98	1,348.98	10,376.75	317.47	317.47	2,502.62	2,502.62	14,545.81	14,545.81
11	3352.005	Water treatment plant: Cartridge Filter 3352-FR-6003	ea	1.0	103.1	9,321.75	103.1	1,211.83	1,211.83	9,321.75	190.59	190.59	2,229.12	2,229.12	12,953.29	12,953.29
12	3352.006	Water treatment plant: UV Sterilizer 3352-UV-6000	ea	1.0	103.1	9,321.75	103.1	1,211.83	1,211.83	9,321.75	190.59	190.59	2,229.12	2,229.12	12,953.29	12,953.29
13	3352.007	Water treatment plant: Injection of Sodium Hyporchlorite 3352-P-6002 / 6003	ea	2.0	35.9	3,241.96	71.7	421.45	842.91	6,483.91	0.00	0.00	761.91	1,523.82	4,425.32	8,850.64
14	3352.008	Water treatment plant: Tank 3352-HTK-6000 / 6001	ea	2.0	78.4	7,085.59	156.8	921.13	1,842.25	14,171.17	123.63	247.26	1,690.11	3,380.22	9,820.45	19,640.91
15	3352.009	Water treatment plant: Static Mixer 3352-SM-6000	ea	1.0	35.9	3,249.58	35.9	422.45	422.45	3,249.58	0.00	0.00	763.71	763.71	4,435.73	4,435.73
16	3352.010	Water treatment plant: Flow Meter 3352-FQI-6000	ea	1.0	12.8	1,153.43	12.8	149.95	149.95	1,153.43	360.36	360.36	343.63	343.63	2,007.36	2,007.36
17	3352.011	Water treatment plant: Control Panel 3352-CP-6004	ea	1.0	15.9	1,440.41	15.9	187.25	187.25	1,440.41	300.30	300.30	398.97	398.97	2,326.93	2,326.93
18	3352.012	Water treatment plant: Treated Water Tank 3352-TK-6000	ea	1.0	213.0	19,252.11	213.0	2,502.77	2,502.77	19,252.11	658.26	658.26	4,657.05	4,657.05	27,070.19	27,070.19
19	3352.013	Water treatment plant: Distribution Pump 3352-P-6000 / 6001	ea	2.0	90.1	8,141.29	180.1	1,058.37	2,116.73	16,282.57	8,649.80	17,299.61	3,654.75	7,309.49	21,504.20	43,008.40
20	3352.014	Water treatment plant: Hydropneumatic Tank 3352-TK-6001	ea	1.0	96.7	8,743.64	96.7	1,136.67	1,136.67	8,743.64	6,555.70	6,555.70	3,374.71	3,374.71	19,810.72	19,810.72
21	3352.015	Main water heater 3352-WHTR-7002	ea	1.0	48.2	4,355.87	48.2	566.26	566.26	4,355.87	43,589.65	43,589.65	9,799.41	9,799.41	58,311.19	58,311.19
22	3352.016	Control room water heater 3352-WHTR-7000	ea	1.0	48.2	4,355.87	48.2	566.26	566.26	4,355.87	1,326.09	1,326.09	1,290.66	1,290.66	7,538.89	7,538.89
23	3352.017	Eyewash water heater 3352-WHTR-6000 / 7001 / 7003	ea	3.0	25.5	2,304.10	76.5	299.53	898.60	6,912.29	30,224.65	90,673.94	6,626.50	19,879.49	39,454.77	118,364.32
24	3352.018	Emergency shower and eyewash 3352-ESY-6000	ea	1.0	48.1	4,350.33	48.1	565.54	565.54	4,350.33	2,359.83	2,359.83	1,497.49	1,497.49	8,773.19	8,773.19
25	3352.019	Emergency shower and eyewash 3352-ESY-7000 to 7004	ea	5.0	48.1	4,347.29	240.4	565.15	2,825.74	21,736.43	12,563.59	62,817.96	3,551.05	17,755.25	21,027.08	105,135.38
26	3352.020	Water closet 3352-WC-6000 / 6001 / 7000 to 7004 / 8000 to 8003	ea	11.0	28.9	2,609.60	317.5	339.25	3,731.72	28,705.56	553.92	6,093.09	724.81	7,972.92	4,227.57	46,503.30
27	3352.021	Urinal 3352-UR-7000 / 7001	ea	2.0	28.8	2,606.32	57.7	338.82	677.64	5,212.64	1,077.47	2,154.94	829.44	1,658.88	4,852.05	9,704.10
28	3352.022	Lavatory 3352-LAV-6001 / 7000 to 7004 / 8000 to 8003	ea	10.0	9.6	869.37	96.2	113.02	1,130.19	8,693.74	220.54	2,205.45	248.72	2,487.17	1,451.65	14,516.54
29	3352.023	Lavatory 3352-LAV-6000 / 6002	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	126.43	252.87	230.88	461.76	1,345.04	2,690.07
30	3352.024	Kitchen sink 3352-SK-7000	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	259.70	259.70	257.86	257.86	1,506.06	1,506.06
31	3352.025	Mop sink 3352-MS-6000 / 7000 / 8000	ea	3.0	19.2	1,737.55	57.7	225.88	677.64	5,212.64	5,695.54	17,086.61	1,555.00	4,665.01	9,213.97	27,641.91
32	3352.026	Service sink 3352-SS-8000	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	5,683.45	5,683.45	1,349.81	1,349.81	8,021.77	8,021.77
33	3352.027	Multi station sink 3352-SKM-6000	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	6,045.33	6,045.33	1,523.34	1,523.34	9,041.22	9,041.22
34	3352.028	Shower fitting 3352-SH-7000 / 7001	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	370.32	740.64	279.97	559.95	1,638.02	3,276.03
35	3352.029	Air vent 3352-AV-8000 / 8001	ea	2.0	11.0	989.85	21.9	128.68	257.36	1,979.70	260.46	520.92	285.07	570.14	1,664.06	3,328.12
36	3352.030	Pressure safety valve 3352-PSV-6000 / 6001	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	104.77	209.54	176.18	352.36	1,026.64	2,053.27
37	3352.031	Pressure indicator 3352-PI-6000 to 6010	ea	11.0	3.7	329.95	40.2	42.89	471.83	3,629.44	84.95	934.41	94.64	1,041.09	552.43	6,076.76
38	3352.032	Pressure switch 3352-PSL-6000, 3352-PSLL-6000, 3352-PSH-6000, 3352-PSHH-6000	ea	4.0	7.3	659.90	29.2	85.79	343.15	2,639.59	419.73	1,678.91	239.59	958.35	1,405.00	5,619.99
39	3352.033	Pressure control valve 3352-PCV-6000	ea	1.0	6.4	575.32	6.4	74.79	74.79	575.32	1,704.41	1,704.41	478.35	478.35	2,832.88	2,832.88
40	3352.034	Temperature indicator 3352-TE-7000 / 3352-TI-7000, 3352-TE-6000 / 3352-TI-6000	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	246.41	492.83	127.15	254.30	746.40	1,492.81
41	3352.035	Control Panel 3352-CP-6005	ea	1.0	18.6	1,678.85	18.6	218.25	218.25	1,678.85	55,387.27	55,387.27	11,545.45	11,545.45	68,829.82	68,829.82
42	3352.036	Pipe NPS 1/2 Type K , Piping Specification NB11	m	255.0	0.8	73.88	208.4	9.60	2,449.25	18,840.36	13.57	3,459.83	20.10	5,124.31	117.15	29,873.75
43	3352.037	Pipe NPS 1/2 Sch.10S, Piping Specification SB11	m	49.0	3.9	351.85	190.7	45.74	2,241.27	17,240.52	10.73	525.84	84.85	4,157.68	493.17	24,165.27
44	3352.038	Elbow 45 degrees NPS 1/2 Type K , Piping Specification NB11	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	1.00	0.00	4.11	0.00	23.92	0.00
45	3352.039	Elbow 90 degrees NPS 1/2 Type K, Piping Specification NB11	ea	166.0	0.2	22.16	40.7	2.88	478.32	3,679.35	0.51	85.11	5.31	881.84	30.87	5,124.62
46	3352.040	Tee NPS 1/2 Type K, Piping Specification NB11	ea	57.0	0.5	44.29	27.9	5.76	328.39	2,524.52	1.04	59.01	10.62	605.18	61.70	3,516.90
47	3352.041	Coupling SW/FNPT NPS 1/2, Piping Specification NB11	ea	53.0	0.2	22.10	13.0	2.87	152.29	1,171.46	1.65	87.71	5.53	292.97	32.16	1,704.43
48	3352.042	Weld NPS 1/2, Piping Specification NB11	ea	925.0	1.3	118.00	1,207.3	15.34	14,189.05	109,146.57	0.00	0.00	27.78	25,651.04	161.07	148,986.66
49	3352.043	Ball Valve NPS 1/2, Valve Specification VBA08	ea	63.0	1.3	118.10	82.3	15.35	967.26	7,440.49	9.11	573.84	29.59	1,864.14	172.15	10,845.73
50	3352.044	Pipe insulation NPS 1/2	Linear meter	254.8	3.3	302.12	851.6	39.28	10,008.03	76,984.86	166.54	42,436.44	87.06	22,182.85	594.99	151,612.18
51	3352.045	Pipe identification NPS 1/2	Linear meter	86.1	0.6	50.57	48.2	6.57	566.26	4,355.87	12.06	1,039.19	14.31	1,232.90	83.52	7,194.22
52	3352.046	Pipe NPS 3/4 Type K, Piping Specification NB11	m	250.0	0.8	68.30	188.9	8.88	2,219.82	17,075.55	14.04	3,510.06	18.88	4,719.68	110.10	27,525.11
53	3352.047	Pipe NPS 3/4 Sch.10S, Piping Specification SB11	m	0.0	0.6	49.91	0.0	6.49	0.00	0.00	3.74	0.00	12.48	0.00	72.61	0.00
54	3352.048	Elbow 45 degrees NPS 3/4 Type K, Piping Specification NB11	ea	2.0	0.1	8.32	0.2	1.08	2.16	16.64	1.49	2.98	2.25	4.51	13.14	26.29
55	3352.049	Elbow 90 degrees NPS 3/4 Type K, Piping Specification NB11	ea	116.0	0.2	22.18	28.5	2.88	334.50	2,573.05	1.17	135.62	5.45	632.01	31.68	3,675.17
56	3352.050	Tee NPS 3/4 Type K, Piping Specification NB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	1.70	0.00	12.08	0.00	70.18	0.00
57	3352.051	Tee Reducing NPS 3/4 x 1/2 Type K, Piping Specification NB11	ea	20.0	0.5	44.57	9.9	5.79	115.88	891.41	1.71	34.19	10.82	216.38	62.89	1,257.86
58	3352.052	Union NPS 3/4 Type K, Piping Specification NB11	ea	53.0	0.3	27.39	16.1	3.56	188.69	1,451.49	5.67	300.72	7.58	401.66	44.20	2,342.56
59	3352.053	Concentric Reducer NPS 3/4 x 1/2 Type K, Piping Specification NB11	ea	20.0	0.3	24.75	5.5	3.22	64.34	494.92	1.08	21.69	6.03	120.68	35.08	701.63
60	3352.054	Concentric Reducer SW Class 3000 NPS 3/4 x 1/2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
61	3352.055	Cap NPS 3/4 Type K, Piping Specification NB11	ea	4.0	0.2	20.80	0.9	2.70	10.81	83.18	0.79	3.14	5.05	20.18	29.33	117.32
62	3352.056	Flange Slip-On 150RF NPS 3/4 c/w hardware , Piping Specification SB11	ea	8.0	0.5	45.40	4.0	5.90	47.22	363.23	24.94	199.52	15.69	125.52	91.94	735.49
63	3352.057	Flange SW 150RF NPS 3/4 c/w hardware, Piping Specification SB11	ea	4.0	1.3	119.57	5.3	15.54	62.18	478.28	0.68	2.72	28.24	112.95	164.03	656.13
64	3352.058	Weld NPS 3/4, Piping Specification NB11	ea	402.0	1.3	117.99	524.6	15.34	6,166.03	47,430.86	0.00	0.00	27.73	11,146.96	161.05	64,743.83
65	3352.059	Quick connect FNPT NPS 3/4, Hansen Series HK	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	29.18	0.00	60.29	0.00	351.09	0.00
66	3352.060	Ball Valve NPS 3/4, Valve Specification VBA08	ea	3.0	3.0	274.96	9.1	35.74	107.23	824.87	33.95	101.84	71.45	214.36	416.10	1,248.30
67	3352.061	Ball Valve NPS 3/4, Valve Specification VBA14	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	91.26	0.00	72.78	0.00	425.66	0.00
68	3352.062	Ball Valve NPS 3/4, Valve Specification VBA11	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	100.39	0.00	74.63	0.00	436.64	0.00
69	3352.063	Pipe insulation NPS 3/4	Linear meter	249.6	3.3	302.35	834.9	39.31	9,811.95	75,476.53	171.58	42,832.97	88.11	21,995.52	601.35	150,116.96
70	3352.064	Pipe identification NPS 3/4	Linear meter	84.4	0.6	50.43	47.1	6.56	553.29	4,256.06	12.06	1,018.06	14.28	1,205.19	83.34	7,032.60

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D=C x 13%	LABOUR OH&P (Ext.) E=AxD	COST OF LABOUR (Ext.) F=AxC	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I=C+D+G+H	TOTAL PRICE J=AxI
71	3352.065	Pipe NPS 1 Type K, Piping Specification NB11	m	90.0	0.9	80.28	79.9	10.44	939.33	7,225.61	18.38	1,654.32	22.57	2,031.19	131.67	11,850.45
72	3352.066	Pipe NPS 1 Sch.10s , Piping Specification SB11	m	0.0	0.6	49.91	0.0	6.49	0.00	0.00	4.61	0.00	12.65	0.00	73.66	0.00
73	3352.067	Elbow 90 degrees NPS 1 Type K, Piping Specification NB11	ea	52.0	0.2	22.21	12.8	2.89	150.13	1,154.83	2.52	130.94	5.73	297.76	33.34	1,733.66
74	3352.068	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	9.64	0.00	17.58	0.00	102.41	0.00
75	3352.069	Tee SW Class 3000 NPS 1, Piping Specification SB11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	9.64	0.00	32.90	0.00	191.37	0.00
76	3352.070	Tee Reducing NPS 1 x 1/2 Type K, Piping Specification NB11	ea	9.0	0.5	44.06	4.4	5.73	51.55	396.50	5.15	46.33	11.39	102.52	66.32	596.89
77	3352.071	Tee Reducing NPS 1 x 3/4 Type K, Piping Specification NB11	ea	2.0	0.5	41.59	0.9	5.41	10.81	83.18	5.15	10.30	10.81	21.62	62.95	125.91
78	3352.072	Tee Reducing SW Class 3000 NPS 1 x 1/2, Piping Specification SB11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	9.64	0.00	32.90	0.00	191.37	0.00
79	3352.073	Union SW Class 3000 NPS 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	18.64	0.00	19.39	0.00	113.22	0.00
80	3352.074	Concentric Reducer NPS 1 x 1/2 Type K, Piping Specification NB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	5.73	0.00	8.97	0.00	52.29	0.00
81	3352.075	Concentric Reducer NPS 1 x 3/4 Type K, Piping Specification NB11	ea	8.0	0.3	24.78	2.2	3.22	25.77	198.25	2.17	17.39	6.26	50.09	36.44	291.51
82	3352.076	Concentric Reducer SW Class 3000 NPS 1 x 3/4, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
83	3352.077	Cap NPS 1 Type K, Piping Specification NB11	ea	3.0	0.2	22.18	0.7	2.88	8.65	66.54	1.87	5.61	5.59	16.76	32.52	97.57
84	3352.078	Cap SW Class 3000 NPS 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.68	0.00	17.38	0.00	101.26	0.00
85	3352.079	Flange Slip-on 150RF NPS 1 c/w hardware, Piping Specification SB11	ea	3.0	1.3	115.53	3.8	15.02	45.06	346.59	0.81	2.42	27.32	81.95	158.67	476.01
86	3352.080	Flange SW 150RF NPS 1 c/w hardware, Piping Specification SB11	ea	19.0	0.7	62.53	13.1	8.13	154.45	1,188.10	21.97	417.52	19.12	363.27	111.76	2,123.35
87	3352.081	Weld NPS 1, Piping Specification NB11	ea	220.0	1.3	118.03	287.2	15.34	3,375.78	25,967.53	0.00	0.00	27.74	6,102.75	161.12	35,446.06
88	3352.082	Ball Valve NPS 1, Valve Specification VBA11	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	127.75	0.00	80.13	0.00	469.50	0.00
89	3352.083	Pipe insulation NPS 1	Linear meter	89.9	3.3	302.18	300.5	39.28	3,532.22	27,170.89	185.55	16,683.74	90.89	8,172.66	617.90	55,559.53
90	3352.084	Pipe identification NPS 1	Linear meter	30.4	0.6	50.49	17.0	6.56	199.51	1,534.67	12.06	366.70	14.29	434.49	83.41	2,535.37
91	3352.085	Pipe Type K NPS 1-1/4, Piping Specification NB11	m	4.0	0.8	70.68	3.1	9.19	36.41	280.05	23.28	92.23	21.30	84.39	124.44	493.07
92	3352.086	Concentric Reducer Type K 1-1/4 x 1/2, Piping Specification NB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	5.73	0.00	8.97	0.00	52.29	0.00
93	3352.087	Weld NPS 1-1/4, Piping Specification NB11	ea	199.0	2.0	177.00	389.6	23.01	4,578.96	35,222.74	0.00	0.00	41.60	8,277.87	241.61	48,079.56
94	3352.088	Pipe insulation NPS 1-1/4	Linear meter	4.0	3.4	304.74	13.4	39.62	156.98	1,207.50	191.62	759.29	92.57	366.79	628.55	2,490.56
95	3352.089	Pipe identification NPS 1-1/4	Linear meter	1.3	0.6	49.68	0.7	6.46	8.65	66.54	12.06	16.16	14.10	18.89	82.30	110.23
96	3352.090	Pipe NPS 1-1/2 Type K, Piping Specification NB11	m	134.8	0.8	73.57	109.7	9.56	1,288.96	9,915.10	30.31	4,084.56	23.39	3,152.52	136.84	18,441.15
97	3352.091	Elbow 90 degrees NPS 1-1/2 Type K, Piping Specification NB11	ea	77.0	0.2	22.07	18.8	2.87	220.95	1,699.65	4.09	315.27	6.01	462.92	35.05	2,698.80
98	3352.092	Tee NPS 1-1/2 Type K, Piping Specification NB11	ea	8.0	0.5	43.32	3.8	5.63	45.06	346.59	6.68	53.41	11.53	92.21	67.16	537.26
99	3352.093	Tee Reducing NPS 1-1/2 x 1-1/2 x 1/2 Type K, Piping Specification NB11	ea	12.0	0.5	44.02	5.8	5.72	68.67	528.20	8.44	101.30	12.04	144.54	70.23	842.71
100	3352.094	Tee Reducing NPS 1-1/2 x K 1-1/2 x 3/4 Type K, Piping Specification NB11	ea	9.0	0.5	44.06	4.4	5.73	51.55	396.50	8.44	75.97	12.05	108.48	70.28	632.50
101	3352.095	Tee Reducing NPS 1-1/2 x 1-1/2 x 1 Type K, Piping Specification NB11	ea	5.0	0.5	42.98	2.4	5.59	27.93	214.88	8.44	42.21	11.80	59.00	68.80	344.02
102	3352.096	Concentric Reducer NPS 1-1/2 x 1-1/2 x 1/2 Type K, Piping Specification NB11	ea	1.0	0.2	16.64	0.2	2.16	2.16	16.64	5.73	5.73	5.05	5.05	29.59	29.59
103	3352.097	Concentric Reducer NPS 1-1/2 x 1-1/2 x 3/4 Type K, Piping Specification NB11	ea	2.0	0.3	24.96	0.6	3.24	6.49	49.91	5.73	11.46	7.02	14.04	40.95	81.90
104	3352.098	Concentric Reducer NPS 1-1/2 x 1-1/2 x 1 Type K, Piping Specification NB11	ea	1.0	0.2	16.64	0.2	2.16	2.16	16.64	5.73	5.73	5.05	5.05	29.59	29.59
105	3352.099	Cap NPS 1-1/2 Type K, Piping Specification NB11	ea	4.0	0.2	20.80	0.9	2.70	10.81	83.18	3.30	13.20	5.55	22.20	32.35	129.40
106	3352.100	Weld NPS 1-1/2, Piping Specification NB11	ea	133.0	2.0	177.00	260.4	23.01	3,060.39	23,541.45	0.00	0.00	41.60	5,532.57	241.61	32,134.41
107	3352.101	Pipe insulation NPS 1-1/2	Linear meter	134.7	3.3	302.53	450.8	39.33	5,298.41	40,757.01	210.39	28,344.47	95.96	12,927.35	648.20	87,327.24
108	3352.102	Pipe identification NPS 1-1/2	Linear meter	45.5	0.6	50.35	25.4	6.55	298.09	2,293.00	12.06	549.43	14.26	649.49	83.22	3,790.01
109	3352.103	Pipe NPS 2 Type K, Piping Specification NB11	m	122.0	10.9	982.28	1,325.6	127.70	15,578.94	119,838.03	64.69	7,892.66	243.87	29,752.69	1,418.54	173,062.33
110	3352.104	Pipe NPS 2 Sch.10S, Piping Specification SB11	m	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.99	0.00	17.45	0.00	101.63	0.00
111	3352.105	Elbow 45 degrees NPS 2 Type K, Piping Specification NB11	ea	5.0	0.1	9.98	0.6	1.30	6.49	49.91	5.49	27.46	3.45	17.26	20.22	101.12
112	3352.106	Elbow 90 degrees NPS 2 Type K, Piping Specification NB11	ea	39.0	0.2	22.00	9.5	2.86	111.56	858.14	10.81	421.65	7.35	286.57	43.02	1,677.92
113	3352.107	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	9.64	0.00	17.58	0.00	102.41	0.00
114	3352.108	Tee SW Class 3000 NPS 2, Piping Specification SB11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	9.64	0.00	32.90	0.00	191.37	0.00
115	3352.109	Tee Reducing NPS 2 x 3/4 Type K, Piping Specification NB11	ea	6.0	0.5	43.90	2.9	5.71	34.24	263.40	13.69	82.12	13.07	78.44	76.37	458.21
116	3352.110	Tee Reducing NPS 2 x 1 1/2 Type K, Piping Specification NB11	ea	25.0	2.3	209.84	58.0	27.28	681.97	5,245.91	25.32	632.88	54.41	1,360.30	316.84	7,921.06
117	3352.111	Tee Reducing SW Class 3000 NPS 2 x 3/4, Piping Specification SB11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	9.64	0.00	32.90	0.00	191.37	0.00
118	3352.112	Tee Reducing SW Class 3000 NPS 2 x 1, Piping Specification SB11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	9.64	0.00	32.90	0.00	191.37	0.00
119	3352.113	Concentric Reducer NPS 2 x 3/4 Type K, Piping Specification NB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	5.73	0.00	8.97	0.00	52.29	0.00
120	3352.114	Concentric Reducer NPS 2 x 1 1/2 Type K, Piping Specification NB11	ea	4.0	1.3	119.57	5.3	15.54	62.18	478.28	13.42	53.66	30.80	123.21	179.33	717.33
121	3352.115	Concentric Reducer SW Class 3000 NPS 2 x 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
122	3352.116	Coupling NPS 2, Robar model 1506	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	70.04	0.00	21.92	0.00	129.56	0.00
123	3352.117	Union NPS 2 Type K, Piping Specification NB11	ea	54.0	1.6	140.84	84.1	18.31	988.71	7,605.47	101.39	5,475.16	53.51	2,889.69	314.06	16,959.04
124	3352.118	Flange Slip-On SS 150RF NPS 2 c/w hardware, Piping Specification SB11	ea	18.0	1.1	99.89	19.9	12.99	233.75	1,798.08	47.59	856.56	33.06	595.03	193.52	3,483.41
125	3352.119	Weld NPS 2, Piping Specification NB11	ea	229.0	2.6	236.00	597.8	30.68	7,025.86	54,045.09	0.00	0.00	55.46	12,701.38	322.15	73,772.33
126	3352.120	Ball Valve NPS 2, Valve Specification VBA08	ea	13.0	3.5	313.42	45.1	40.74	529.68	4,074.45	107.00	1,390.96	95.20	1,237.60	556.36	7,232.69
127	3352.121	Ball Valve NPS 2, Valve Specification VBA11	ea	1.0	2.0	181.61	2.0	23.61	23.61	181.61	58.40	58.40	54.44	54.44	318.07	318.07
128	3352.122	Check valve NPS 2, Valve Specification VCH12	ea	3.0	1.9	176.07	5.8	22.89	68.67	528.20	191.64	574.92	79.96	239.88	470.56	1,411.67
129	3352.123	Globe valve NPS 2, Valve Specification VGL05	ea	0.0	3.8	346.59	0.0	45.06	0.00	0.00	1,536.80	0.00	390.85	0.00	2,319.29	0.00
130	3352.124	Globe valve NPS 2, Valve Specification VGL06	ea	0.0	3.8	346.59	0.0	45.06	0.00	0.00	1,536.80	0.00	390.85	0.00	2,319.29	0.00
131	3352.125	Pipe insulation NPS 2	Linear meter	122.5	3.6	326.25	442.2	42.41	5,196.77	39,975.13	212.09	25,987.42	100.50	12,314.29	681.25	83,473.61
132	3352.126	Pipe identification NPS 2	Linear meter	41.4	0.6	50.57	23.2	6.57	272.32	2,094.77	12.06	499.70	14.31	592.90	83.52	3,459.69
133	3352.127	Pipe NPS 2-1/2 Type K, Piping Specification NB11	m	214.0	6.0	538.33	1,274.3	69.98	14,976.27	115,207.11	67.83	14,515.16	140.17	29,996.47	816.31	174,690.02
134	3352.128	Pipe NPS 2-1/2 Sch.10S, Piping Specification SB11	m	0.0	0.4	33.27	0.0	4.33	0.00	0.00	11.92	0.00	10.23	0.00	59.74	0.00
135	3352.129	Elbow 45 degrees NPS 2-1/2 Type K, Piping Specification NB11	ea	2.0	1.3	115.76	2.6	15.05	30.10	231.52	26.91	53.81	32.62	65.23	190.33	380.66
136	3352.130	Elbow 90 degrees NPS 2-1/2 Type K, Piping Specification NB11	ea	12.0	2.5	229.56	30.5	29.84	358.11	2,754.66	23.37	280.44	58.65	703.84	341.42	4,097.05
137	3352.131	Tee NPS 2-1/2 Type K, Piping Specification NB11	ea	8.0	3.4	303.09	26.8	39.40	315.21	2,424.71	36.16	289.24	78.51	628.07	457.15	3,657.24
138	3352.132	Concentric Reducer Type K 2-1/2 x 1 1/2, Piping Specification NB11	ea	1.0	2.4	214.88	2.4	27.93	27.93	214.88	18.49	18.49	54.21	54.21	315.52	315.52
139	3352.133	Concentric Reducer Type K 2-1/2 x 2, Piping Specification NB11	ea	4.0	2.4	214.54	9.5	27.89	111.56	858.14	18.48	73.94	54.14	216.55	315.05	1,260.19
140	3352.134	Victaulic Coupling NPS 2-1/2, Style 07	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	59.06	0.00	27.67	0.00	162.54	0.00
141	3352.135	Victaulic Coupling NPS 2-1/2, Style 77	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	34.54	0.00	22.60	0.00	132.33	0.00
142	3352.136	Victaulic Coupling NPS 2-1/2 Copper x 2-1/2 SS, Style 667	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	52.03	0.00	26.11	0.00	153.33	0.00
143	3352.137	Victaulic Tee Reducing NPS 2-1/2 x 3/4, Style 25	ea	0.0	3.1	280.05	0.0	36.41	0.00	0.00	103.48	0.00	86.65	0.00	506.59	0.00
144	3352.138	Victaulic Tee Reducing NPS 2-1/2 x 1, Style 25	ea	0.0	3.1	280.05	0.0	36.41	0.00	0.00	103.48	0.00	86.65	0.00	506.59	0.00
145	3352.139	Weld NPS 2-1/2, Piping Specification NB11	ea	140.0	4.0	358.35	554.9	46.59	6,521.96	50,168.89	0.00	0.00	84.22	11,790.41	489.15	68,481.26
146	3352.140	Ball Valve NPS 2-1/2, Valve Specification VBA08	ea	2.0	4.2	379.17	8.4	49.29	98.58	758.33	167.92	335.83	122.91	245.83	719.29	1,438.57
147	3352.141	Pipe insulation NPS 2-1/2	Linear meter	214.0	5.1	460.34	1,089.5	59.84	12,804.93	98,499.47	260.66	55,774.47	134.04	28,679.88	914.89	195,758.75
148	3352.142	Pipe identification NPS 2-1/2	Linear meter	72.3	0.6	50.41	40.3	6.55	473.99	3,646.07	12.06	872.62	14.28	1,032.57	83.30	6,025.24
149	3352.143	Pipe NPS 3 Type K, Piping Specification NB11	m	1.0	6.2	561.61	6.2	73.01	72.99	561.47	70.86	70.85	146.26	146.22	851.74	851.53
150	3352.144	Pipe NPS 3 Sch.10S, Piping Specification SB11	m	0.0	0.4	33.27	0.0	4.33	0.00	0.00	18.79	0.00	11.60	0.00	67.99	0.00
151	3352.145	Tee Reducing NPS 3 x 2 Type K, Piping Specification NB11	ea	1.0	6.8	609.99	6.8	79.30	79.30	609.99	50.28	50.28	153.47	153.47	893.04	893.04
152	3352.146	Concentric Reducer NPS 3 x 2 Type K, Piping Specification NB11	ea	0.0	2.9	263.40	0.0	34.24	0.00	0.00	5.73	0.00	63.06	0.00	366.43	0.00
153	3352.147	Eccentric Reducer SW NPS 3 x 2 Sch.10S, Piping Specification SB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	8.00	0.00	13.35	0.00	77.75	0.00
154	3352.148	Coupling SW/MNPT NPS 3, Piping Specification NB11	ea	127.0	0.2	22.08	31.0	2.87	364.59	2,804.57	2.80	355.66	5.75	730.72	33.51	4,255.54
155	3352.149	Cap NPS 3 Type K, Piping Specification NB11	ea	1.0	3.3	296.68	3.3	38.57	38.57	296.68	26.74	26.74	75.12	75.12	437.11	437.11

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
156	3352.150	Weld NPS 3, Piping Specification NB11	ea	4.0	5.4	490.77	21.7	63.80	255.20	1,963.06	0.00	0.00	115.34	461.34	669.90	2,679.60
157	3352.151	Pipe insulation NPS 3	Linear meter	1.0	5.2	467.32	5.2	60.75	60.74	467.20	284.27	284.20	140.05	140.01	952.39	952.15
158	3352.152	Pipe identification NPS 3	Linear meter	1.0	0.2	16.41	0.2	2.13	2.16	16.64	4.02	4.07	4.66	4.73	27.23	27.60
		SDS (Wastewater)														
159	3353.010	Septic pumping station 3353-SPS-5000	ea	1.0	104.6	9,453.46	104.6	1,228.95	1,228.95	9,453.46	19,640.91	19,640.91	6,175.93	6,175.93	36,499.25	36,499.25
160	3353.020	Pump 3353-P-5000 / 5001	ea	2.0	71.7	6,483.22	143.4	842.82	1,685.64	12,966.43	8,192.49	16,384.98	3,173.02	6,346.03	18,691.54	37,383.07
161	3353.030	Level switch 3353-LSL-5000 / 5001 / 3353-LSH-5000 / 5001 / 3353-LSHH-5000	ea	5.0	25.3	2,289.13	126.6	297.59	1,487.93	11,445.63	664.42	3,322.11	671.74	3,358.72	3,922.88	19,614.39
162	3353.040	Control Panel 3353-CP-5000	ea	1.0	18.6	1,678.85	18.6	218.25	218.25	1,678.85	59,957.89	59,957.89	12,465.62	12,465.62	74,320.62	74,320.62
163	3353.050	Pipe NPS 1-1/2 Sch.DWV, Piping Specification PA01	m	77.0	5.8	527.28	449.1	68.55	5,278.05	40,600.36	7.36	566.50	125.40	9,655.73	728.58	56,100.63
164	3353.060	Elbow 45 degrees SW Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	10.0	0.2	14.83	1.6	1.93	19.28	148.34	2.16	21.57	3.92	39.20	22.84	228.40
165	3353.070	Elbow 90 degrees Sch.DWV NPS 1 1/2, Piping Specification PA01	ea	21.0	0.3	29.05	6.8	3.78	79.30	609.99	2.54	53.28	7.34	154.08	42.70	896.64
166	3353.080	"P" Drain Trap SW NPS 1-1/2, Piping Specification PA01	ea	15.0	0.3	29.67	4.9	3.86	57.85	445.01	9.29	139.37	8.84	132.64	51.66	774.87
167	3353.090	Tee wye SW Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	1.0	0.7	66.54	0.7	8.65	8.65	66.54	4.39	4.39	16.52	16.52	96.10	96.10
168	3353.100	Pipe identification NPS 1-1/2	Linear meter	27.6	0.6	50.81	15.5	6.60	182.39	1,402.98	12.06	333.13	14.37	396.79	83.84	2,315.29
169	3353.110	Pipe NPS 2 Sch.DWV, Piping Specification PA01	m	156.0	10.9	988.79	1,706.2	128.54	20,052.65	154,251.14	16.98	2,649.26	235.80	36,784.65	1,370.11	213,737.70
170	3353.120	Pipe NPS 2 Sch.40, Piping Specification PA02	m	74.0	1.2	106.34	87.9	13.82	1,022.95	7,868.87	9.94	735.89	26.99	1,997.46	157.10	11,625.17
171	3353.130	Elbow 45 degrees Sch.DWV NPS 2, Piping Specification PA01	ea	29.0	0.2	14.77	4.7	1.92	55.69	428.37	3.31	95.98	4.14	120.00	24.14	700.04
172	3353.140	Elbow 45 degrees SW Sch.40 NPS 2, Piping Specification PA02	ea	47.0	0.3	25.28	13.1	3.29	154.45	1,188.10	6.99	328.50	7.35	345.36	42.90	2,016.41
173	3353.150	Elbow 90 degrees SW Sch.DWV NPS 2, Piping Specification PA01	ea	18.0	0.3	29.34	5.8	3.81	68.67	528.20	3.80	68.39	7.66	137.90	44.62	803.16
174	3353.160	Elbow 90 degrees SW Sch.40 NPS 2, Piping Specification PA01	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	8.17	0.00	9.48	0.00	55.25	0.00
175	3353.170	Sanitary Tee SW Sch.DWV NPS 2, Piping Specification PA01	ea	13.0	0.6	58.33	8.4	7.58	98.58	758.33	6.67	86.71	15.05	195.68	87.64	1,139.30
176	3353.180	Sanitary Tee Reducing SW Sch.DWV NPS 2 2 x 2 x 1 1/2, Piping Specification PA01	ea	23.0	0.7	58.83	15.0	7.65	175.90	1,353.07	5.75	132.21	14.98	344.62	87.21	2,005.80
177	3353.190	Drain Trap SW Sch.DWV NPS 2, Piping Specification PA01	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	17.51	0.00	11.33	0.00	66.44	0.00
178	3353.200	Tee Reducing SW Sch.DWV NPS 2 2 x 2 x 1 1/2, Piping Specification PA01	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.17	0.00	17.29	0.00	100.65	0.00
179	3353.210	Tee Wye SW Sch.DWV NPS 2, Piping Specification PA01	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.17	0.00	17.29	0.00	100.65	0.00
180	3353.220	Tee Wye Reducer SW Sch.DWV NPS 2 2 x 2 x 1 1/2 Sch DWV, Piping Specification PA01	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.17	0.00	17.29	0.00	100.65	0.00
181	3353.230	Concentric Reducer Sch.DWV NPS 2 x 1 1/2, Piping Specification PA01	ea	14.0	0.4	32.98	5.1	4.29	60.01	461.65	3.65	51.14	8.48	118.79	49.40	691.59
182	3353.240	Coupling SW Sch.DWV NPS 2 , Piping Specification PA01	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	8.17	0.00	9.48	0.00	55.25	0.00
183	3353.250	Union SW Sch.DWV NPS 2, Piping Specification SB11	ea	5.0	0.3	29.67	1.6	3.86	19.28	148.34	4.89	24.46	7.96	39.78	46.37	231.86
184	3353.260	Ball Valve NPS 2, Valve Specification VBA09	ea	3.0	2.3	208.87	6.9	27.15	81.46	626.62	62.15	186.44	61.60	184.81	359.78	1,079.33
185	3353.270	Ball Valve NPS 2, Valve Specification VBA10	ea	0.0	2.9	263.40	0.0	34.24	0.00	0.00	78.73	0.00	77.76	0.00	454.12	0.00
186	3353.280	Check Valve NPS 2, Valve Specification VCH10	ea	4.0	2.4	214.54	9.5	27.89	111.56	858.14	150.53	602.12	80.72	322.90	473.68	1,894.72
187	3353.290	Pipe identification NPS 2	Linear meter	76.1	0.6	50.49	42.5	6.56	499.76	3,844.32	12.06	918.61	14.29	1,088.41	83.41	6,351.10
188	3353.300	Pipe NPS 3 Sch.DWV, Piping Specification PA01	m	130.0	8.5	768.41	1,104.9	99.89	12,986.06	99,892.75	20.00	2,599.95	184.61	23,999.72	1,072.91	139,478.47
189	3353.310	Elbow 45 degrees SW Sch.DWV NPS 3, Piping Specification PA01	ea	48.0	0.1	10.66	5.7	1.39	66.50	511.55	8.62	413.60	4.24	203.49	24.90	1,195.14
190	3353.320	Elbow 60 degrees SW Sch.DWV NPS 3, Piping Specification PA01	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	11.64	0.00	6.26	0.00	36.70	0.00
191	3353.330	Elbow 90 degrees SW Sch.DWV NPS 3, Piping Specification PA01	ea	21.0	0.2	21.98	5.1	2.86	60.01	461.65	10.16	213.38	7.21	151.45	42.21	886.49
192	3353.340	Elbow 90 degrees SW Sch.40 NPS 3, Piping Specification PA01	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	11.64	0.00	10.17	0.00	59.40	0.00
193	3353.350	Sanitary Tee SW Sch.DWV NPS 3, Piping Specification PA01	ea	4.0	0.5	41.25	1.8	5.36	21.45	164.98	24.50	98.01	14.63	58.53	85.74	342.94
194	3353.360	Sanitary Tee Reducing SW Sch.DWV NPS 3 x 3 x 2, Piping Specification PA01	ea	3.0	0.5	43.90	1.5	5.71	17.12	131.71	12.22	36.67	12.78	38.34	74.61	223.83
195	3353.370	Drain Trap SW Sch.DWV NPS3, Piping Specification PA01	ea	2.0	0.3	24.96	0.6	3.24	6.49	49.91	7.83	15.67	7.44	14.88	43.47	86.95
196	3353.380	Tee Wye PVC SW Sch.DWV NPS 3, Piping Specification PA01	ea	9.0	0.5	44.06	4.4	5.73	51.55	396.50	15.85	142.64	13.54	121.90	79.18	712.59
197	3353.390	Tee Wye Reducer SW Sch.DWV NPS 3 x 3 x 2, Piping Specification PA01	ea	4.0	0.5	41.25	1.8	5.36	21.45	164.98	13.08	52.31	12.33	49.31	72.01	288.04
198	3353.400	Concentric Reducer SW Sch.DWV NPS 3 x 2, Piping Specification PA01	ea	3.0	0.2	16.64	0.6	2.16	6.49	49.91	8.52	25.55	5.62	16.87	32.94	98.82
199	3353.410	Concentric Reducer Male/Female SW Sch.DWV NPS 3 x 2, Piping Specification PA01	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	11.64	0.00	6.26	0.00	36.70	0.00
200	3353.420	Coupling Sch.DWV NPS 3, Piping Specification PA01	ea	24.0	0.2	21.31	5.7	2.77	66.50	511.55	9.01	216.21	6.82	163.75	39.92	958.02
201	3353.430	Pipe identification NPS 3	Linear meter	43.9	0.6	50.38	24.5	6.55	287.46	2,211.22	12.06	529.54	14.27	626.28	83.26	3,654.49
202	3353.440	Pipe NPS 4 Sch.DWV, Piping Specification PA01	m	126.0	6.9	625.59	871.9	81.33	10,247.19	78,824.54	28.98	3,651.52	152.86	19,260.07	888.76	111,983.31
203	3353.450	Elbow 45 degrees SW Sch.DWV NPS 4, Piping Specification PA01	ea	32.0	0.2	14.43	5.1	1.88	60.01	461.65	16.99	543.63	6.81	217.94	40.10	1,283.23
204	3353.460	Elbow 90 degrees SW Sch.DWV NPS 4, Piping Specification PA01	ea	3.0	0.3	27.73	0.9	3.60	10.81	83.18	17.10	51.29	9.96	29.87	58.39	175.16
205	3353.470	Sanitary Tee Reducing SW Sch.DWV 4 x 4 x 2, Piping Specification PA01	ea	2.0	0.6	57.54	1.3	7.48	14.96	115.07	28.10	56.21	19.18	38.36	112.30	224.59
206	3353.480	Tee Wye SW Sch.DWV NPS 4, Piping Specification PA01	ea	9.0	0.6	56.84	5.7	7.39	66.50	511.55	25.15	226.36	18.42	165.78	107.80	970.19
207	3353.490	Tee Wye Reducer SW Sch.DWV NPS 4 x 4 x 2, Piping Specification PA01	ea	4.0	0.6	57.88	2.6	7.52	30.10	231.52	23.10	92.38	18.25	73.01	106.75	427.01
208	3353.500	Tee Wye Reducer SW Sch.DWV NPS 4 x 4 x 3, Piping Specification PA01	ea	14.0	0.6	57.73	8.9	7.51	105.07	808.24	22.83	319.69	18.16	254.30	106.24	1,487.30
209	3353.510	Coupling SW Sch.DWV NPS 4, Piping Specification PA01	ea	14.0	0.3	28.32	4.4	3.68	51.55	396.50	10.25	143.45	8.72	122.06	50.97	713.56
210	3353.520	Flexible Coupling NPS 4 x 4, Ferrco series 1056	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	10.51	0.00	9.92	0.00	58.02	0.00
211	3353.530	Cap SW Sch.DWV NPS 4, Piping Specification PA01	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	5.84	0.00	9.00	0.00	52.43	0.00
212	3353.540	Pipe identification NPS 4	Linear meter	42.8	0.6	50.54	23.9	6.57	280.97	2,161.31	12.06	515.87	14.31	611.80	83.49	3,569.95
213	3353.550	Pipe NPS 6 Sch.DWV, Piping Specification PA01	m	6.0	4.4	398.81	26.5	51.84	311.07	2,392.83	50.50	302.97	103.89	623.35	605.04	3,630.21
214	3353.560	Concentric Reducer SW Sch.DWV NPS 6 x 4, Piping Specification PA01	ea	5.0	0.3	23.01	1.3	2.99	14.96	115.07	60.76	303.79	17.64	88.20	104.40	522.02
215	3353.570	Pipe identification NPS 6	Linear meter	2.1	0.5	47.77	1.1	6.21	12.80	98.44	12.07	24.86	13.66	28.14	79.70	164.25
		ASS (Low Pressure Compressed Air)														
216	3441.010	Low pressure compressor 3441-COM-5000 / 5001	ea	2.0	214.4	19,384.50	428.8	2,519.99	5,039.97	38,769.00	661,123.23	1,322,246.46	137,656.80	275,313.60	820,684.52	1,641,369.03
217	3441.020	Air filter 3441-FR-5000 / 5001	ea	4.0	17.9	1,620.98	71.7	210.73	842.91	6,483.91	0.00	0.00	380.95	1,523.82	2,212.66	8,850.63
218	3441.030	Air tank 3441-TK-5000	ea	1.0	102.2	9,238.57	102.2	1,201.01	1,201.01	9,238.57	176.44	176.44	2,206.72	2,206.72	12,822.75	12,822.75
219	3441.040	Oil-water separator 3441-OWS-5000	ea	2.0	28.3	2,557.10	56.6	332.42	664.85	5,114.20	36.20	72.41	608.24	1,216.48	3,533.97	7,067.94
220	3441.050	Drain trap 3441-YV-0001 / 5000 / 6000	ea	3.0	7.3	659.90	21.9	85.79	257.36	1,979.70	300.59	901.77	215.60	646.81	1,261.88	3,785.64
221	3441.060	Pressure indicator 3441-PI-5000 to 5002	ea	3.0	3.7	329.95	11.0	42.89	128.68	989.85	84.11	252.32	94.48	283.43	551.43	1,654.28
222	3441.070	Pressure safety valve 3441-PSV-5000	ea	0.0	7.3	659.89	0.0	85.79	0.00	0.00	291.83	0.00	213.84	0.00	1,251.35	0.00
223	3441.080	Pipe NPS 1/2 Sch.STD, Piping Specification GB11	m	7.0	12.8	1,159.57	89.8	150.74	1,055.21	8,117.02	6.28	43.97	273.78	1,916.47	1,590.38	11,132.68
224	3441.090	Elbow 45 degrees FNPT Sch.STD NPS 1/2, Piping Specification GB11	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	0.92	0.00	4.09	0.00	23.81	0.00
225	3441.100	Elbow 90 degrees FNPT Sch.STD NPS 1/2, Piping Specification GB11	ea	10.0	0.4	37.99	4.2	4.94	49.38	379.86	0.81	8.14	9.09	90.91	52.83	528.29
226	3441.110	Tee FNPT Sch.STD NPS 1/2, Piping Specification GB11	ea	2.0	0.8	74.17	1.6	9.64	19.28	148.34	1.03	2.05	17.64	35.28	102.48	204.96
227	3441.120	Flexible Hose Flextube FNPT NPS 1/2	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	23.35	0.00	59.11	0.00	344.08	0.00
228	3441.130	Ball Valve NPS 1/2, Valve Specification VBA07	ea	1.0	2.2	198.25	2.2	25.77	25.77	198.25	91.26	91.26	64.96	64.96	380.25	380.25
229	3441.140	Pipe identification NPS 1/2	Linear meter	2.3	0.6	50.76	1.3	6.60	14.96	115.07	12.07	27.35	14.36	32.55	83.78	189.93
230	3441.150	Pipe NPS 3/4 Sch.STD, Piping Specification GB11	m	105.1	1.2	111.60	129.8	14.51	1,524.88	11,729.82	7.76	815.34	27.79	2,920.82	161.65	16,990.86
231	3441.160	Elbow 90 degrees FNPT Sch.STD NPS 3/4, Piping Specification GB11	ea	58.0	0.4	37.55	24.1	4.88	283.13	2,177.95	1.16	67.02	9.06	525.35	52.65	3,053.45
232	3441.170	Elbow 90 degrees SW Sch.STD NPS 3/4, Piping Specification CB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	1.12	0.00	11.94	0.00	69.46	0.00
233	3441.180	Tee FNPT Sch.STD NPS 3/4, Piping Specification GB11	ea	1.0	0.9	83.18	0.9	10.81	10.81	83.18	1.48	1.48	19.86	19.86	115.33	115.33
234	3441.190	Tee Reducing FNPT Sch.STD NPS 3/4 x 1/2, Piping Specification GB11	ea	1.0	0.9	83.18	0.9	10.81	10.81	83.18	2.45	2.45	20.04	20.04	116.49	116.49
235	3441.200	Union FNPT Sch.STD NPS 3/4, Piping Specification GB11	ea	7.0	0.4	37.63	2.9	4.89	34.24	263.40	4.74	33.19	9.80	68.59	57.06	399.42
236	3441.210	Concentric Reducer FNPT Sch.STD NPS 3/4 x 1/2, Piping Specification GB11	ea	3.0	0.5	43.90	1.5	5.71	17.12	131.71	1.08	3.23	10.54	31.61	61.23	183.68
237	3441.220	Excentric Reducer FNPT Sch.STD NPS 3/4 x 1/2, Piping Specification GB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	1.84	0.00	12.09	0.00	70.34	0.00

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	P1A LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
238	3441.230	Y Strainer FNPT NPS 3/4	ea	1.0	3.3	296.68	3.3	38.57	38.57	296.68	122.57	122.57	94.40	94.40	552.22	552.22
239	3441.240	Weld NPS 3/4, Piping Specification GB11	ea	479.0	0.6	57.24	303.3	7.44	3,564.48	27,419.04	91.40	43,782.73	31.80	15,231.59	187.89	89,997.84
240	3441.250	Quick connect FNPT NPS 3/4, Hansen Series 5500	ea	48.0	3.3	300.06	159.3	39.01	1,872.35	14,402.68	30.64	1,470.84	76.69	3,680.96	446.39	21,426.83
241	3441.260	Ball Valve NPS 3/4, Valve Specification VBA05	ea	47.0	2.2	200.08	104.0	26.01	1,222.46	9,403.55	34.68	1,629.88	54.00	2,538.11	314.77	14,794.01
242	3441.270	Ball Valve NPS 3/4, Valve Specification VBA06	ea	54.0	2.2	200.12	119.5	26.02	1,404.85	10,806.52	10.93	590.26	49.23	2,658.52	286.30	15,460.16
243	3441.280	Pipe identification NPS 3/4	Linear meter	35.5	0.6	50.58	19.9	6.58	233.75	1,798.08	12.06	428.86	14.32	508.91	83.54	2,969.60
244	3441.290	Pipe NPS 1 Sch.STD, Piping Specification GB11	m	172.3	1.2	111.65	212.8	14.51	2,500.61	19,235.46	11.81	2,034.51	28.62	4,930.22	166.59	28,700.80
245	3441.300	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification CB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	1.23	0.00	11.98	0.00	69.60	0.00
246	3441.310	Tee FNPT Sch.STD NPS 1, Piping Specification GB11	ea	34.0	0.8	75.23	28.3	9.78	332.51	2,557.79	2.60	88.45	18.20	618.93	105.81	3,597.68
247	3441.320	Concentric Reducer FNPT Sch.STD NPS 1 x 3/4, Piping Specification GB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	1.84	0.00	12.09	0.00	70.34	0.00
248	3441.330	Excentric Reducer FNPT Sch.STD NPS 1 x 1/2, Piping Specification GB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	1.28	1.28	11.98	11.98	69.66	69.66
249	3441.340	Victaulic Coupling NPS 1, Style 77	ea	8.0	0.4	37.09	3.3	4.82	38.57	296.68	30.64	245.15	14.88	119.08	87.44	699.48
250	3441.350	Victaulic Coupling NPS 1, Style 07	ea	284.0	0.4	37.52	117.9	4.88	1,385.98	10,656.80	29.91	8,493.95	14.84	4,214.56	87.15	24,750.70
251	3441.360	Victaulic Elbow 90 degrees NPS 1, Style 10	ea	82.0	0.4	37.62	34.1	4.89	401.03	3,084.60	44.80	3,673.30	17.86	1,464.46	105.16	8,623.36
252	3441.370	Victaulic Elbow 45 degrees NPS 1, Style 11	ea	20.0	0.2	18.99	4.2	2.47	49.38	379.86	44.80	895.93	13.48	269.64	79.74	1,594.81
253	3441.380	Victaulic tee NPS 1, Style 20	ea	2.0	0.8	74.17	1.6	9.64	19.28	148.34	85.42	170.84	34.63	69.26	203.86	407.72
254	3441.390	Weld NPS 1, Piping Specification GB11	ea	2,011.0	3.6	327.41	7,283.1	42.56	85,595.83	658,429.81	9.66	19,424.43	77.40	155,659.88	457.04	919,109.99
255	3441.400	Ball Valve NPS 1, Valve Specification VBA06	ea	3.0	2.2	197.78	6.6	25.71	77.14	593.35	20.08	60.23	50.52	151.57	294.10	882.29
256	3441.410	Pipe identification NPS 1	Linear meter	58.2	0.6	50.44	32.5	6.56	381.72	2,936.27	12.06	702.32	14.28	831.46	83.34	4,851.76
257	3441.420	Flange Threaded 150RF Sch.STD NPS 1 1/2 c/w Hardware, Piping Specification GB11	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	8.58	0.00	13.46	0.00	78.44	0.00
258	3441.430	Pipe NPS 2 Sch.STD, Piping Specification GB11	m	988.0	2.9	263.66	2,881.4	34.28	33,864.31	260,494.72	34.60	34,189.07	68.93	68,103.23	401.47	396,651.34
259	3441.440	Tee FNPT NPS 2, Piping Specification GB11	ea	26.0	0.8	74.86	21.5	9.73	253.04	1,946.43	6.73	175.01	18.95	492.67	110.27	2,867.15
260	3441.450	Tee Reducing FNPT NPS 2 x 2 x 1, Piping Specification GB11	ea	0.0	0.9	83.18	0.0	10.81	0.00	0.00	3.07	0.00	20.16	0.00	117.22	0.00
261	3441.460	Union FNPT NPS 2, Piping Specification GB11	ea	1.0	0.4	33.27	0.4	4.33	4.33	33.27	16.16	16.16	11.07	11.07	64.82	64.82
262	3441.470	Concentric Reducer FNPT NPS 2 x 3/4, Piping Specification GB11	ea	26.0	0.5	41.86	12.0	5.44	141.48	1,088.28	3.47	90.21	10.54	273.93	61.30	1,593.90
263	3441.480	Flexible Hose Flexitube FNPT NPS 2	ea	0.0	5.7	511.55	0.0	66.50	0.00	0.00	58.37	0.00	131.97	0.00	768.39	0.00
264	3441.490	Flange SW 150RF NPS 2 c/w hardware, Piping Specification GB11	ea	4.0	26.6	2,404.61	106.4	312.60	1,250.40	9,618.44	28.45	113.80	570.84	2,283.38	3,316.50	13,266.02
265	3441.500	Flange Slip-On 150RF NPS 2 c/w Hardware, Piping Specification GB11	ea	2.0	0.5	41.59	0.9	5.41	10.81	83.18	8.21	16.42	11.43	22.86	66.64	133.27
266	3441.510	Hansen Quick connect B20H51 Brass FNPT NPS 2	ea	15.0	5.0	449.82	74.6	58.48	877.35	6,747.31	627.05	9,405.79	231.96	3,479.36	1,367.31	20,509.61
267	3441.520	Victaulic coupling NPS 2, Style 77	ea	167.0	0.4	37.54	69.3	4.88	814.97	6,269.03	34.55	5,769.31	15.78	2,634.83	92.74	15,488.14
268	3441.530	Victaulic coupling NPS 2, Style 07	ea	420.0	0.4	37.51	174.3	4.88	2,048.25	15,755.76	41.62	17,481.51	17.20	7,222.32	101.21	42,507.84
269	3441.540	Victaulic Concentric Reducer NPS 2 x 3/4, Style 50	ea	6.0	0.5	41.36	2.7	5.38	32.26	248.15	60.94	365.62	21.99	131.93	129.66	777.96
270	3441.550	Victaulic cap NPS 2, Style 60	ea	5.0	0.4	36.32	2.0	4.72	23.61	181.61	38.61	193.03	16.31	81.55	95.96	479.80
271	3441.560	Victaulic Elbow 90 degrees NPS 2, Style 10	ea	94.0	0.4	37.56	39.1	4.88	459.03	3,531.00	44.80	4,210.86	17.85	1,677.59	105.09	9,878.48
272	3441.570	Victaulic Elbow 90 degrees NPS 2, Style 100	ea	23.0	0.4	37.31	9.5	4.85	111.56	858.14	62.72	1,442.56	21.40	492.10	126.28	2,904.36
273	3441.580	Victaulic Elbow 45 degrees NPS 2, Style 11	ea	28.0	0.2	18.86	5.8	2.45	68.67	528.20	44.80	1,254.30	13.45	376.65	79.57	2,227.82
274	3441.590	Victaulic tee NPS 2, Style 20	ea	27.0	0.8	75.17	22.5	9.77	263.85	2,029.60	85.42	2,306.27	34.86	941.29	205.22	5,541.01
275	3441.600	Victaulic Tee Reducing NPS 2 x 2 x 1, Style 25	ea	37.0	0.8	74.90	30.7	9.74	360.27	2,771.30	103.48	3,828.92	38.44	1,422.16	226.56	8,382.65
276	3441.610	Victaulic Expansion Joint NPS 2, Style 155	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	2,497.36	0.00	514.50	0.00	3,068.26	0.00
277	3441.620	Ball Valve NPS 2, Valve Specification VBA05	ea	13.0	3.3	300.73	43.2	39.09	508.23	3,909.47	102.21	1,328.72	91.25	1,186.29	533.29	6,932.71
278	3441.630	Ball Valve NPS 2, Valve Specification VBA07	ea	15.0	3.3	300.28	49.8	39.04	585.55	4,504.22	269.54	4,043.12	124.84	1,872.53	733.70	11,005.43
279	3441.640	Check valve NPS 2, Valve Specification VCH06	ea	1.0	3.3	296.68	3.3	38.57	38.57	296.68	187.99	187.99	107.57	107.57	630.81	630.81
280	3441.650	Pipe identification NPS 2	Linear meter	348.0	0.6	49.96	192.3	6.49	2,260.55	17,388.87	96.88	33,718.30	31.25	10,875.00	184.58	64,242.72
		AHS (High Pressure Compressed Air)					0.0	50.00				50.00		50.00		50.00
281	3442.010	Compressor 3442-COM-5000 / 5001	ea	2.0	185.3	16,753.23	370.6	2,177.92	4,355.84	33,506.46	341.67	683.33	4,006.04	8,012.09	23,278.86	46,557.72
282	3442.020	Control Panel 3442-CP-5000	ea	0.0	15.9	1,440.41	0.0	187.25	0.00	0.00	294.75	0.00	397.86	0.00	2,320.28	0.00
283	3442.030	Air tank 3442-TK-5000 / 5001	ea	2.0	102.2	9,238.58	204.4	1,201.01	2,402.03	18,477.15	178.20	356.40	2,207.08	4,414.15	12,824.86	25,649.73
284	3442.040	Pressure Damper 3442-PD-5000 / 5001	ea	2.0	109.3	9,881.84	218.6	1,284.64	2,569.28	19,763.67	242.98	485.96	2,371.30	4,742.59	13,780.75	27,561.50
285	3442.050	Oil-Water Separator 3442-OWS-5000	ea	1.0	56.6	5,114.20	56.6	664.85	664.85	5,114.20	73.13	73.13	1,216.63	1,216.63	7,068.81	7,068.81
286	3442.060	Pressure Safety Valve 3442-PSV-5000 / 5001	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	120.24	240.47	101.74	203.49	594.82	1,189.64
287	3442.070	Y-strainer 3442-STR-1000 / 2000/ 3000 / 4000 / 5000 / 5001	ea	6.0	4.8	431.61	28.7	56.11	336.66	2,589.68	136.18	817.05	128.85	773.10	752.75	4,516.49
288	3442.080	Y-strainer 3442-STR-5002 / 5003	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	120.24	240.47	101.74	203.49	594.82	1,189.64
289	3442.090	Y-strainer 3442-STR-5004	ea	1.0	3.7	329.95	3.7	42.89	42.89	329.95	120.24	120.24	101.76	101.76	594.84	594.84
290	3442.100	Solenoid Valve 3442-YV-5000 / 5001	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	1,665.90	3,331.81	412.93	825.87	2,451.68	4,903.35
291	3442.110	Pressure Regulator 3442-PCV-5000 / 5001	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	120.24	240.47	101.74	203.49	594.82	1,189.64
292	3442.120	Pressure Indicator 3442-PI-1000 / 2000 / 3000 / 4000 / 5000 / 5001 / 5002 / 5003 / 5004 / 6000	ea	10.0	4.7	428.93	47.5	55.76	557.61	4,289.33	110.43	1,104.31	123.04	1,230.38	718.16	7,181.64
293	3442.130	Pressure Transmitter 3442-PT-5000 / 5001	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	1,823.93	3,647.85	522.29	1,044.58	3,091.90	6,183.81
294	3442.140	Pressure Expansion Valve 3442-PEV-5000 / 5001	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	35.02	70.04	84.60	169.19	492.45	984.91
295	3442.150	Pipe NPS 1/2 Sch.40S, Piping Specification SB11	m	0.0	44.0	3,976.03	0.0	516.88	0.00	0.00	154.84	0.00	965.60	0.00	5,613.35	0.00
296	3442.160	Olet FNPT NPS 1/2 Sch.40S, Piping Specification SB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	10.54	10.54	13.84	13.84	80.78	80.78
297	3442.170	Ball Valve NPS 1/2, Valve Specification VBA12	ea	0.0	3.7	329.95	0.0	42.89	0.00	0.00	109.52	0.00	99.59	0.00	581.95	0.00
298	3442.180	Pipe identification NPS 1/2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
299	3442.190	Pipe NPS 3/4 Sch.10S, Piping Specification SB11	m	29.6	1.8	160.53	52.6	20.87	617.63	4,750.99	9.91	293.14	39.72	1,175.57	231.03	6,837.33
300	3442.200	Pipe NPS 3/4 Sch.40S, Piping Specification SB11	m	0.0	0.6	49.91	0.0	6.49	0.00	0.00	4.23	0.00	12.57	0.00	73.20	0.00
301	3442.210	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	22.0	0.6	54.00	13.1	7.02	154.45	1,188.10	5.37	118.08	13.77	302.99	80.16	1,763.62
302	3442.220	Elbow 45 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	8.74	0.00	9.58	0.00	55.92	0.00
303	3442.230	Tee SW Class 3000 NPS 3/4, Piping Specification SB11	ea	7.0	1.2	108.33	8.4	14.08	98.58	758.33	7.11	49.74	26.89	188.23	156.41	1,094.89
304	3442.240	Union SW Class 3000 NPS 3/4, Piping Specification SB11	ea	5.0	0.6	52.68	2.9	6.85	34.24	263.40	14.67	73.36	15.33	76.67	89.53	447.67
305	3442.250	Weld NPS 3/4, Piping Specification SB11	ea	108.0	0.5	47.97	57.3	6.24	673.50	5,180.75	16.06	1,734.66	14.35	1,549.96	84.62	9,138.87
306	3442.260	Ball Valve NPS 3/4, Valve Specification VBA12	ea	8.0	3.2	286.63	25.4	37.26	298.09	2,293.00	38.78	310.28	75.17	601.35	437.84	3,502.72
307	3442.270	Needle Valve NPS 3/4, Valve Specification VNE04	ea	2.0	3.2	289.06	6.4	37.58	75.15	578.11	0.00	0.00	67.93	135.85	394.56	789.12
308	3442.280	Pipe identification NPS 3/4	Linear meter	10.0	0.6	51.18	5.7	6.65	66.50	511.55	12.06	120.57	14.46	144.50	84.36	843.13
309	3442.290	Pipe NPS 1 Sch.10S, Piping Specification SB11	m	0.0	0.6	49.91	0.0	6.49	0.00	0.00	4.56	0.00	12.64	0.00	73.60	0.00
310	3442.300	Pipe NPS 1 Sch.40S, Piping Specification SB11	m	196.0	4.2	376.33	815.9	48.92	9,588.83	73,760.23	18.05	3,537.40	92.08	18,046.91	535.37	104,933.37
311	3442.310	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification SB11	ea	60.0	0.6	53.88	35.8	7.00	420.28	3,232.94	8.11	486.77	14.30	857.79	83.30	4,997.78
312	3442.320	Elbow 90 degrees FNPT Sch.40S NPS 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.70	0.00	17.39	0.00	101.28	0.00
313	3442.330	Tee SW Class 3000 NPS 1, Piping Specification SB11	ea	12.0	1.2	107.21	14.2	13.94	167.25	1,286.52	10.49	125.83	27.31	327.69	158.94	1,907.29
314	3442.340	Union SW Class 3000 NPS 1, Piping Specification SB11	ea	5.0	0.6	52.68	2.9	6.85	34.24	263.40	22.61	113.06	16.93	84.66	99.07	495.35
315	3442.350	Union SW / FNPT Class 3000 NPS 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	18.64	0.00	19.39	0.00	113.22	0.00
316	3442.360	Concentric Reducer SW Class 3000 NPS 1 x 3/4, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
317	3442.370	Flexible Connector Penflex 800SS MNPT NPS 1	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	61.51	0.00	28.02	0.00	164.71	0.00
318	3442.380	Flange SW 150RF NPS 1 c/w Hardware , Piping Specification SB11	ea	6.0	16.5	1,490.32	98.9	193.74	1,162.45	8,941.89	34.62	207.73	357.22	2,143.30	2,075.89	12,455.36
319	3442.390	Weld NPS 1, Piping Specification SB11	ea	242.0	0.7	65.92	176.5	8.57	2,073.84	15,952.61	1.03	248.60	15.50	3,749.84	91.01	22,024.89
320	3442.400	Ball Valve NPS 1, Valve Specification VBA12	ea	18.0	3.2	287.82	57.3	37.42	673.50	5,180.75	186.57	3,358.32	105.20	1,893.67	617.01	11,106.24

SCHEDULE OI . . . . BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
								0.13								
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
321	3442.410	Pipe identification NPS 1	Linear meter	66.2	0.6	50.38	36.9	6.55	433.26	3,332.76	12.06	798.04	14.27	943.91	83.26	5,507.96
322	3442.420	Pipe NPS 2 Sch40, Piping Specification SB11	m	155.0	2.5	224.79	385.4	29.22	4,529.58	34,842.90	31.31	4,853.03	59.10	9,161.14	344.43	53,386.65
323	3442.430	Elbow 45 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	4.0	0.3	28.77	1.3	3.74	14.96	115.07	87.45	149.78	14.30	57.20	84.25	337.01
324	3442.440	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	22.0	0.6	54.00	13.1	7.02	154.45	1,188.10	31.16	685.49	18.96	417.23	111.15	2,445.28
325	3442.450	Union SW Class 3000 NPS 2, Piping Specification SB11	ea	10.0	0.6	54.48	6.0	7.08	70.83	544.84	56.71	567.15	24.22	242.22	142.50	1,425.04
326	3442.460	Union SW/ FNPT Class 3000 NPS 2, Piping Specification SB11	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	57.40	229.59	24.18	96.71	142.28	569.13
327	3442.470	Tee SW Class 3000 NPS 2, Piping Specification SB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	44.57	44.57	36.01	36.01	210.61	210.61
328	3442.480	Tee Reducing SW Class 3000 NPS 2 x 2 x 3/4, Piping Specification SB11	ea	2.0	1.2	107.44	2.4	13.97	27.93	214.88	95.67	191.35	44.51	89.02	261.59	523.19
329	3442.490	Tee Reducing SW Class 3000 NPS 2 x 2 x 1, Piping Specification SB11	ea	5.0	1.2	108.97	6.0	14.17	70.83	544.84	95.68	478.39	44.87	224.35	263.68	1,318.41
330	3442.500	Half Coupling SW Class 3000 NPS 2, Piping Specification SB11	ea	29.0	0.6	54.07	17.3	7.03	203.83	1,567.96	10.56	306.34	14.83	430.16	86.49	2,508.30
331	3442.510	Cap SW Class 3000 NPS 2, Piping Specification SB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	10.62	10.62	13.87	13.87	80.89	80.89
332	3442.520	Flexible Connector Penflex 800SS MNPT NPS 2	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	204.89	409.78	196.34	392.68	1,146.92	2,293.84
333	3442.530	Expansion Joint U Type Connectall NPS 2	ea	3.0	7.3	659.90	21.9	85.79	257.36	1,979.70	2,419.18	7,257.55	642.13	1,926.38	3,807.00	11,420.99
334	3442.540	Concentric Reducer Sch.10s NPS 2 x 1, Piping Specification SB11	ea	1.0	0.7	66.54	0.7	8.65	8.65	66.54	35.78	35.78	22.83	22.83	133.80	133.80
335	3442.550	Weld NPS 2, Piping Specification SB11	ea	135.0	2.1	191.61	286.1	24.91	3,362.80	25,867.72	1.00	135.60	45.03	6,079.70	262.56	35,445.83
336	3442.560	Ball Valve NPS 2, Valve Specification VBA12	ea	2.0	4.7	429.07	9.5	55.78	111.56	858.14	310.28	620.56	163.30	326.61	958.43	1,916.86
337	3442.570	Pipe identification NPS 2	Linear meter	57.4	1.1	102.52	65.1	13.33	765.59	5,889.17	16.35	939.13	27.38	1,573.11	159.58	9,167.01
338	3442.580	Flange SW 150RF NPS 6 c/w Hardware, Piping Specification SB11	ea	18.0	3.3	302.45	60.2	39.32	707.74	5,444.16	3.94	71.01	71.88	1,293.76	417.59	7,516.67
339	3442.590	Blind Flange 150RF NPS 6 c/w Hardware, Piping Specification SB11	ea	6.0	6.1	549.91	36.5	71.49	428.93	3,299.48	72.43	434.60	143.82	862.93	837.66	5,025.94
340	3443.020	WFS (Fire Protection Water)	LS	1.0	26448.3	2,391,081.99	26,448.3	310,840.66	310,840.66	2,391,081.99	5,244,861.68	5,244,861.68	590,230.91	590,230.91	8,537,015.24	8,537,015.24
		WCD (Clear Water Drainage)						50.00								
341	3444.001	Drainage pump 3444-P-5000 to 5002	ea	3.0	143.0	12,928.55	429.0	1,680.71	5,042.13	38,785.64	145,527.04	436,581.13	32,336.75	97,010.24	192,473.05	577,419.14
342	3444.002	Submersible pump 3444-P-0001	ea	0.0	124.1	11,218.27	0.0	1,458.38	0.00	0.00	51,712.21	0.00	13,047.47	0.00	77,436.33	0.00
343	3444.003	Oil skimmer 3444-OS-0001	ea	0.0	62.0	5,609.14	0.0	729.19	0.00	0.00	18,382.40	0.00	5,019.09	0.00	29,739.82	0.00
344	3444.004	Air vent 3444-AV-0001 to 0003	ea	3.0	3.7	329.95	11.0	42.89	128.68	989.85	6,530.07	19,590.22	1,392.21	4,176.64	8,295.13	24,885.40
345	3444.005	Air vent 3444-AV-5000 to 0002	ea	3.0	3.7	329.95	11.0	42.89	128.68	989.85	3,300.06	9,900.17	741.93	2,225.79	4,414.83	13,244.50
346	3444.006	Air vent 3444-AV-5003	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	8,137.50	16,274.99	1,715.83	3,431.66	10,226.16	20,452.33
347	3444.007	Pressure Indicator 3444-PI-0001 to 0003	ea	3.0	3.7	329.95	11.0	42.89	128.68	989.85	84.95	254.84	94.64	283.93	552.43	1,657.30
348	3444.008	Level Switch 3444-LSLL-0001 / 3444-LSHH-0001	ea	2.0	16.6	1,497.25	33.1	194.64	389.28	2,994.49	1,096.12	2,192.24	572.55	1,145.10	3,360.56	6,721.12
349	3444.009	Level Transmitter 3444-LT-0001	ea	1.0	24.6	2,227.85	24.6	289.62	289.62	2,227.85	5,652.55	5,652.55	1,661.60	1,661.60	9,831.62	9,831.62
350	3444.010	Oil sheen detector 3444-LSH-0001	ea	1.0	28.3	2,557.79	28.3	332.51	332.51	2,557.79	26,779.21	26,779.21	5,992.46	5,992.46	35,661.97	35,661.97
351	3444.011	Current transmitter 3444-IT-5000 to 5002	ea	3.0	6.4	576.26	19.1	74.91	224.74	1,728.77	128.19	384.57	161.24	483.71	940.60	2,821.79
352	3444.012	Control Panel 3444-CP-5000	ea	1.0	18.6	1,678.85	18.6	218.25	218.25	1,678.85	60,135.84	60,135.84	12,501.45	12,501.45	74,534.39	74,534.39
353	3444.013	Pipe NPS 3/4 Sch.10S, Piping Specification SB11	m	9.7	1.8	159.97	17.2	20.80	201.67	1,551.32	7.62	73.92	39.13	379.47	227.52	2,206.37
354	3444.014	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	9.0	0.6	53.14	5.3	6.91	62.18	478.28	5.37	48.30	13.57	122.13	78.99	710.89
355	3444.015	Weld NPS 3/4, Piping Specification SB11	ea	27.0	1.1	98.99	29.6	12.87	347.47	2,672.86	137.39	3,709.45	50.68	1,368.25	299.93	8,098.03
356	3444.016	Pipe identification NPS 3/4	Linear meter	3.3	0.6	50.04	1.8	6.50	21.45	164.98	12.07	39.78	14.19	46.79	82.80	273.00
357	3444.017	Pipe NPS 1 Sch.10S, Piping Specification SB11	m	19.0	1.8	164.97	34.7	21.45	407.49	3,134.52	346.43	6,582.10	108.52	2,061.81	641.36	12,185.92
358	3444.018	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification SB11	ea	14.0	0.6	56.54	8.8	7.35	102.91	791.60	203.25	2,845.54	54.21	758.92	321.36	4,498.97
359	3444.019	Olet SW Class 3000 NPS 1, Piping Specification SB11	ea	10.0	0.4	37.99	4.2	4.94	49.38	379.86	6.29	62.90	10.19	101.93	59.41	594.07
360	3444.020	Ball valve NPS 1, Valve Specification VBA11	ea	10.0	3.7	329.95	36.5	42.89	428.93	3,299.48	182.52	1,825.18	114.29	1,142.88	669.65	6,696.47
361	3444.021	Weld NPS 1, Piping Specification SB11	ea	70.0	0.5	42.18	32.7	5.48	383.86	2,952.91	170.65	11,945.30	44.13	3,088.78	262.44	18,370.87
362	3444.022	Pipe identification NPS 1	Linear meter	6.4	0.6	51.65	3.7	6.71	42.89	329.95	12.06	77.07	14.57	93.06	84.99	542.97
363	3444.023	Pipe NPS 1-1/2 Sch.DWV, Piping Specification PA01	m	452.0	3.6	326.41	1,631.9	42.43	19,179.82	147,537.10	7.36	3,324.70	78.19	35,342.74	454.39	205,384.36
364	3444.024	"P" Drain Trap SW NPS 1-1/2, Piping Specification PA01	ea	30.0	0.3	29.16	9.7	3.79	113.72	874.78	9.29	278.72	8.72	261.70	50.96	1,528.93
365	3444.025	Elbow 90 degrees SW Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	56.0	0.3	29.16	18.1	3.79	212.80	1,633.11	2.54	142.09	7.36	412.41	42.86	2,399.91
366	3444.026	Elbow 45 degrees SW Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	73.0	0.2	14.70	11.9	1.91	139.49	1,073.03	2.16	157.47	3.89	283.88	22.66	1,653.88
367	3444.027	Elbow 22.5 degrees SW Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	9.81	0.00	5.88	0.00	34.49	0.00
368	3444.028	Tee wye SW Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	19.0	0.7	59.03	12.4	7.67	145.80	1,121.55	4.39	83.37	14.76	280.37	85.85	1,631.09
369	3444.029	Coupling Sch.DWV NPS 1-1/2, Piping Specification PA01	ea	70.0	0.3	29.23	22.6	3.80	266.01	2,046.24	1.72	120.74	7.22	505.20	41.97	2,938.19
370	3444.030	Pipe insulation NPS 1-1/2	Linear meter	0.0	3.3	302.22	0.0	39.29	0.00	0.00	201.83	0.00	94.19	0.00	637.53	0.00
371	3444.031	Pipe identification NPS 1-1/2	Linear meter	152.7	0.6	50.45	85.2	6.56	1,001.51	7,703.89	12.06	1,842.20	14.29	2,181.41	83.36	12,729.00
372	3444.032	Pipe NPS 2 Sch.40, Piping Specification PA02	m	16.0	6.3	568.14	100.6	73.86	1,181.73	9,090.23	10.11	161.80	135.56	2,168.92	787.67	12,602.69
373	3444.033	Elbow 90 degrees SW Sch.40 NPS 2, Piping Specification PA02	ea	11.0	0.3	30.00	3.7	3.90	42.89	329.95	8.47	93.14	8.75	96.29	51.12	562.28
374	3444.034	Pipe identification NPS 2	Linear meter	5.5	0.6	51.28	3.1	6.67	36.41	280.05	12.06	65.88	14.48	79.08	84.49	461.42
375	3444.035	Pipe NPS 3 Sch.STD, Piping Specification CB11	m	13.0	3.6	327.39	47.1	42.56	553.29	4,256.06	19.81	257.47	80.93	1,052.07	470.68	6,118.89
376	3444.036	Elbow 90 degrees BW Sch.STD NPS 3, Piping Specification CB11	ea	3.0	1.3	121.08	4.0	15.74	47.22	363.23	6.13	18.39	29.69	89.06	172.63	517.89
377	3444.037	Elbow 45 degrees BW Sch.STD NPS 3, Piping Specification CB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	16.31	0.00	18.92	0.00	110.42	0.00
378	3444.038	Flange Welding Neck 150RF Sch.STD NPS 3 c/w hardware, Piping Specification CB11	ea	4.0	18.5	1,674.35	74.1	217.67	870.66	6,697.40	28.90	115.59	399.32	1,597.27	2,320.23	9,280.92
379	3444.039	Olet BW Sch.STD NPS 3, Piping Specification CB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	35.56	35.56	34.20	34.20	199.79	199.79
380	3444.040	Victaulic Coupling NPS 3, Style 07	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	48.13	0.00	25.33	0.00	148.65	0.00
381	3444.041	Weld NPS 3, Piping Specification CB11	ea	119.0	3.8	342.85	451.3	44.57	5,303.82	40,798.61	20.85	2,481.05	84.74	10,084.41	493.01	58,667.90
382	3444.042	Ball valve NPS 3, Valve Specification VBA01	ea	1.0	5.1	461.65	5.1	60.01	60.01	461.65	1,158.99	1,158.99	341.83	341.83	2,022.48	2,022.48
383	3444.043	Pipe painting NPS 3	Linear meter	89.1	0.0	0.00	0.0	0.00	0.00	0.00	255.42	22,763.51	51.42	4,582.89	306.85	27,346.40
384	3444.044	Pipe identification NPS 3	Linear meter	38.0	0.6	50.32	21.2	6.54	248.73	1,913.16	12.06	458.68	14.25	541.97	83.18	3,162.57
385	3444.045	Pipe NPS 3 Sch.DWV, Piping Specification PA01	m	100.0	1.9	170.42	188.5	22.15	2,215.50	17,042.28	20.00	1,999.89	44.08	4,407.81	256.65	25,665.48
386	3444.046	Elbow 90 degrees SW Sch.DWV NPS 3, Piping Specification PA01	ea	7.0	0.2	21.19	1.6	2.75	19.28	148.34	10.16	71.13	7.03	49.19	41.13	287.94
387	3444.047	Elbow 45 degrees SW Sch.DWV NPS 3, Piping Specification PA01	ea	14.0	0.1	10.60	1.6	1.38	19.28	148.34	8.62	120.63	4.22	59.15	24.81	347.41
388	3444.048	Elbow 22.5 degrees SW Sch.DWV NPS 3, Piping Specification PA01	ea	1.0	0.2	16.64	0.2	2.16	2.16	16.64	19.82	19.82	7.89	7.89	46.52	46.52
389	3444.049	Tee wye SW Sch.DWV NPS 3, Piping Specification PA01	ea	7.0	0.5	42.38	3.3	5.51	38.57	296.68	15.85	110.94	13.15	92.07	76.89	538.26
390	3444.050	Coupling Sch.DWV NPS 3, Piping Specification PA01	ea	15.0	0.2	22.00	3.7	2.86	42.89	329.95	9.01	135.13	6.98	104.75	40.85	612.72
391	3444.051	"P" Drain Trap SW Sch.DWV NPS 3, Piping Specification PA01	ea	23.0	0.2	22.24	5.7	2.89	66.50	511.55	76.81	1,766.70	20.69	475.91	122.64	2,820.67
392	3444.052	Flexible coupling NPS 3, Ferrico Series 1056	ea	1.0	0.2	16.64	0.2	2.16	2.16	16.64	9.83	9.83	5.90	5.90	34.53	34.53
393	3444.053	Pipe identification NPS 3	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
394	3444.054	Pipe NPS 4 Sch.STD, Piping Specification CB11	m	2.0	13.6	1,228.99	27.2	159.77	319.54	2,457.98	30.08	60.15	294.89	589.77	1,713.72	3,427.44
395	3444.055	Elbow 90 degrees BW Sch.STD NPS 4, Piping Specification CB11	ea	6.0	1.4	129.16	8.6	16.79	100.74	774.96	56.89	341.32	41.81	250.84	244.64	1,467.86
396	3444.056	Flange Welding Neck 150RF Sch.STD NPS 4 c/w hardware, Piping Specification CB11	ea	2.0	30.1	2,722.08	60.2	353.87	707.74	5,444.16	46.62	93.24	649.11	1,298.23	3,771.68	7,543.36
397	3444.057	Flange Slip-on 150RF NPS 4 c/w hardware, Piping Specification CB11	ea	0.0	2.0	181.61	0.0	23.61	0.00	0.00	20.84	0.00	46.87	0.00	272.92	0.00
398	3444.058	Olet BW Sch.STD NPS 4, Piping Specification CB11	ea	1.0	1.8	164.98	1.8	21.45	21.45	164.98	46.59	46.59	48.15	48.15	281.17	281.17
399	3444.059	Weld NPS 4, Piping Specification CB11	ea	83.0	4.7	429.13	394.0	55.79	4,630.32	35,617.86	28.29	2,347.91	106.51	8,840.06	619.71	51,436.15
400	3444.060	Ball valve NPS 4, Valve Specification VBA01	ea	1.0	6.2	561.47	6.2	72.99	72.99	561.47	1,555.05	1,555.05	445.03	445.03	2,634.55	2,634.55
401	3444.061	Pipe identification NPS 4	Linear meter	39.9	0.6	50.48	22.3	6.56	261.69	2,012.97	12.06	481.06	14.29	569.94	83.40	3,325.65
402	3444.062	Pipe NPS 4 Sch.DWV, Piping Specification PA01	m	115.7	0.5	47.34	60.6	6.15	712.07	5,477.43	28.98	3,352.73	16.96	1,962.28	99.44	11,504.50
403	3444.063	Elbow 90 degrees SW Sch.DWV NPS 4, Piping Specification PA01	ea	16.0	0.3	28.85	5.1	3.75	60.01	461.65	17.43	278.81	10.29	164.67	60.32	965.09
404	3444.064	Elbow 45 degrees SW Sch.DWV NPS 4, Piping Specification PA01	ea	2.0	0.2	16.64	0.4	2.16	4.33	33.27	16.99	33.98	7.33	14.66	43.12	86.24

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
405	3444.065	Elbow 22.5 degrees SW Sch.DWV NPS 4, Piping Specification PA01	ea	6.0	0.2	13.86	0.9	1.80	10.81	83.18	24.81	148.85	8.25	49.51	48.72	292.35
406	3444.066	Concentric reducer Sch.DWV NPS 4, Piping Specification PA01	ea	1.0	0.2	16.64	0.2	2.16	2.16	16.64	12.42	12.42	6.42	6.42	37.64	37.64
407	3444.067	Tee wye SW Sch.DWV NPS 4, Piping Specification PA01	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	25.16	25.16	16.80	16.80	98.35	98.35
408	3444.068	Coupling Sch.DWV NPS 4, Piping Specification PA01	ea	16.0	0.3	28.85	5.1	3.75	60.01	461.65	17.00	272.06	10.20	163.26	59.81	956.99
409	3444.069	Flexible coupling NPS 4, Ferrico Series 1056	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	10.51	0.00	9.92	0.00	58.02	0.00
410	3444.070	Pipe identification NPS 4	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
411	3444.071	Pipe NPS 6 Sch.STD, Piping Specification CB11	m	7.0	10.8	978.16	75.7	127.16	890.13	6,847.14	50.39	352.76	240.03	1,680.19	1,395.75	9,770.27
412	3444.072	Flange Welding Neck 150RF Sch.STD NPS 6 c/w hardware, Piping Specification CB11	ea	5.0	43.6	3,939.70	217.9	512.16	2,560.81	19,698.50	79.22	396.11	941.84	4,709.18	5,472.92	27,364.60
413	3444.073	Flange Slip-on 150RF NPS 6 c/w hardware, Piping Specification CB11	ea	2.0	2.6	239.14	5.3	31.09	62.18	478.28	256.48	512.96	107.84	215.68	634.55	1,269.10
414	3444.074	Olet BW Sch.STD NPS 6, Piping Specification CB11	ea	1.0	2.7	248.15	2.7	32.26	32.26	248.15	169.19	169.19	92.38	92.38	541.99	541.99
415	3444.075	Cap NPT Sch.STD NPS 6 , Piping Specification CB11	m	0.0	3.1	280.05	0.0	36.41	0.00	0.00	8.58	0.00	67.54	0.00	392.58	0.00
416	3444.076	Weld NPS 6, Piping Specification CB11	ea	8.0	0.0	0.00	0.0	0.00	0.00	0.00	466.32	3,730.52	93.88	751.04	560.20	4,481.56
417	3444.077	Butterfly valve NPS 6, Valve Specification VBU01	ea	1.0	7.5	676.53	7.5	87.95	87.95	676.53	501.92	501.92	260.04	260.04	1,526.43	1,526.43
418	3444.078	Check valve NPS 6, Valve Specification VCH02	ea	1.0	7.5	676.53	7.5	87.95	87.95	676.53	6,570.62	6,570.62	1,481.83	1,481.83	8,816.92	8,816.92
419	3444.079	Pipe identification NPS 6	Linear meter	2.4	0.5	48.56	1.3	6.31	14.96	115.07	12.06	28.59	13.84	32.80	80.77	191.42
420	3444.080	Pipe NPS 10 Sch.STD, Piping Specification CB11	m	26.0	3.0	270.92	77.9	35.22	935.77	7,043.99	105.76	2,749.71	84.96	2,209.03	496.86	12,918.44
421	3444.081	Flange Welding Neck 150RF Sch.STD NPS 10 c/w hardware, Piping Specification CB11	ea	21.0	11.2	1,015.79	236.0	132.05	2,773.33	21,331.62	173.99	3,653.69	273.75	5,748.82	1,595.58	33,507.24
422	3444.082	Flange Welding Neck 150FF Sch.STD NPS 10 c/w hardware, Piping Specification CB11	ea	0.0	2.9	263.40	0.0	34.24	0.00	0.00	91.95	0.00	80.42	0.00	470.01	0.00
423	3444.083	Olet BW Sch.STD NPS 10, Piping Specification CB11	ea	3.0	0.8	71.63	2.4	9.31	27.93	214.88	436.46	1,309.39	104.71	314.12	622.11	1,866.32
424	3444.084	Victaulic Coupling NPS 10, Style 77	ea	3.0	0.8	71.63	2.4	9.31	27.93	214.88	297.43	892.30	76.71	230.14	455.08	1,365.25
425	3444.085	Weld NPS 10, Piping Specification CB11	ea	36.0	4.6	411.97	164.1	53.56	1,928.04	14,831.08	472.64	17,014.92	191.69	6,900.98	1,129.86	40,675.02
426	3444.086	Butterfly valve NPS 10, Valve Specification VBU01	ea	9.0	10.6	955.04	95.1	124.15	1,117.39	8,595.32	1,110.31	9,992.82	647.98	4,031.84	2,637.49	23,737.37
427	3444.087	Check valve NPS 10, Valve Specification VCH02	ea	3.0	9.9	896.50	29.8	116.55	349.64	2,689.50	14,583.13	43,749.40	1,146.65	9,439.95	18,742.83	56,228.48
428	3444.088	Pipe identification NPS 10	Linear meter	8.7	0.5	49.49	4.7	6.43	55.69	428.37	12.06	104.42	14.06	121.69	82.05	710.17
429	3444.089	Olet BW Sch.STD NPS 12, Piping Specification CB11	ea	3.0	1.0	87.80	2.9	11.41	34.24	263.40	724.58	2,173.73	166.51	499.53	990.30	2,970.90
430	3444.090	Flange Welding Neck 150RF Sch.STD NPS 10 c/w hardware, Piping Specification CB11	ea	3.0	4.3	390.49	13.0	50.76	152.29	1,171.46	118.24	354.71	115.57	346.72	675.06	2,025.18
431	3444.091	Weld NPS 12, Piping Specification CB11	ea	6.0	0.0	0.00	0.0	0.00	0.00	0.00	1,521.66	9,129.96	306.35	1,838.09	1,828.01	10,968.05
432	3444.092	Pipe identification NPS 12	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
433	3444.093	Pipe NPS 24 Sch.STD, Piping Specification CB11	m	42.0	24.6	2,227.16	1,034.7	289.53	12,160.27	93,540.53	328.30	13,788.69	589.51	24,759.41	3,434.50	144,248.90
434	3444.094	Elbow 90 degrees BW Sch.STD NPS 24, Piping Specification SB11	ea	2.0	1.9	173.30	3.8	22.53	45.06	346.59	626.09	1,252.19	166.78	333.57	988.70	1,977.40
435	3444.095	Elbow 45 degrees BW Sch.STD NPS 24, Piping Specification SB11	ea	2.0	0.9	82.49	1.8	10.72	21.45	164.98	104.35	208.70	40.39	80.78	237.95	475.90
436	3444.096	Tee BW Sch.STD NPS 24, Piping Specification SB11	ea	1.0	3.8	346.59	3.8	45.06	45.06	346.59	986.90	986.90	280.14	280.14	1,658.68	1,658.68
437	3444.097	Victaulic Coupling NPS 24, Style 77	ea	2.0	1.9	173.30	3.8	22.53	45.06	346.59	1,060.51	2,121.01	254.23	508.47	1,510.56	3,021.13
438	3444.098	Victaulic Coupling NPS 24, Style W77	ea	0.0	2.2	198.25	0.0	25.77	0.00	0.00	1,060.50	0.00	260.11	0.00	1,544.63	0.00
439	3444.099	Weld NPS 24, Piping Specification CB11	ea	19.0	13.6	1,226.91	257.9	159.50	3,030.47	23,311.35	740.66	14,072.45	437.10	8,304.94	2,564.17	48,719.17
440	3444.100	Pipe identification NPS 24	Linear meter	14.1	0.6	50.28	7.9	6.54	92.27	709.80	12.06	170.80	14.25	201.11	83.13	1,173.49
		WDS [Dewatering]					0.0	0.00				0.00		0.00	0.00	
441	3445.010	Dewatering pump 3445-P-5000 to 5002	ea	3.0	189.5	17,130.08	568.4	2,226.91	6,680.73	51,390.24	178,108.27	534,324.80	39,883.61	119,650.83	237,348.87	712,046.60
442	3445.020	Submersible pump 3445-P-0001	ea	1.0	71.7	6,483.91	71.7	842.91	842.91	6,483.91	37,164.70	37,164.70	9,006.03	9,006.03	53,497.55	53,497.55
443	3445.030	Air vent 3445-AV-0001 / 1000 / 1001 / 2000 / 2001 / 3000 / 3001 / 4000 / 4001 / 5000 to 5002	ea	12.0	7.3	659.90	87.6	85.79	1,029.44	7,918.77	3,330.12	39,961.39	825.52	9,906.29	4,901.32	58,815.89
444	3445.040	Air vent 3445-AV-0002 to 0004	ea	3.0	7.3	659.90	21.9	85.79	257.36	1,979.70	6,560.13	19,680.40	1,475.83	4,427.42	8,781.63	26,344.88
445	3445.050	Pressure indicator 3445-PI-0001 to 0004 / 1000 / 2000 / 3000 / 4000	ea	8.0	3.7	329.95	29.2	42.89	343.15	2,639.59	84.95	679.56	94.64	757.16	552.43	4,419.46
446	3445.060	Differential pressure indicator 3445-PDI-0001	ea	1.0	14.6	1,319.80	14.6	171.57	171.57	1,319.80	2,997.04	2,997.04	913.57	913.57	5,401.98	5,401.98
447	3445.070	Pressure switch 3445-PSLH-0001 / 0002	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	890.15	1,780.30	334.30	668.59	1,970.13	3,940.27
448	3445.080	Level switch 3445-LSLL-0001 / 3445-LSHH-0001	ea	2.0	16.6	1,497.25	33.1	194.64	389.28	2,994.49	695.38	1,390.76	491.87	983.75	2,879.14	5,758.29
449	3445.090	Level tarnsmitter 3445-LT-0001	ea	1.0	24.6	2,227.85	24.6	289.62	289.62	2,227.85	5,652.55	5,652.55	1,661.60	1,661.60	9,831.62	9,831.62
450	3445.100	Current transmitter 3445-IT-5000 to 5002	ea	3.0	6.4	576.26	19.1	74.91	224.74	1,728.77	128.19	384.57	161.24	483.71	940.60	2,821.79
451	3445.110	Control Panel 3445-CP-5000	ea	1.0	18.6	1,678.85	18.6	218.25	218.25	1,678.85	64,323.65	64,323.65	13,344.56	13,344.56	79,565.31	79,565.31
452	3445.120	Monorail hoist 3445-HO-0001	ea	1.0	191.6	17,322.32	191.6	2,251.90	2,251.90	17,322.32	9,600.59	9,600.59	6,003.85	6,003.85	35,178.66	35,178.66
453	3445.130	Pipe NPS 1/2 Sch.105, Piping Specification SB11	m	14.0	0.7	61.30	9.5	7.97	111.56	858.14	162.04	2,268.62	47.03	658.41	278.34	3,896.73
454	3445.140	Elbow 90 degrees SW Class 3000 NPS 1/2, Piping Specification CB11	ea	5.0	0.5	49.63	2.7	6.45	32.26	248.15	46.04	230.20	20.93	104.66	123.05	615.27
455	3445.150	Ball valve NPS 1/2, Valve Specification VBA11	ea	2.0	3.2	289.06	6.4	37.58	75.15	578.11	91.26	182.52	86.32	172.61	504.20	1,008.40
456	3445.160	Ball valve NPS 1/2, Valve Specification VBA14	ea	11.0	3.2	287.98	35.0	37.44	411.81	3,167.79	107.60	1,183.61	89.34	982.77	522.36	5,746.00
457	3445.170	Pipe identification NPS 1/2	Linear meter	3.8	0.6	52.00	2.2	6.76	25.77	198.25	12.06	45.99	14.65	55.86	85.48	325.87
458	3445.180	Pipe NPS 3/4 Sch.105, Piping Specification SB11	m	9.7	1.8	160.09	17.2	20.81	201.67	1,551.33	7.62	73.87	39.16	379.45	227.68	2,206.31
459	3445.190	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	3.0	0.6	54.99	1.8	7.15	21.45	164.98	5.37	16.11	14.01	42.02	81.52	244.56
460	3445.200	Weld NPS 3/4, Piping Specification SB11	ea	27.0	1.1	98.99	29.6	12.87	347.47	2,672.86	138.75	3,746.21	50.95	1,375.65	801.56	8,142.19
461	3445.210	Pipe identification NPS 3/4	Linear meter	3.3	0.6	50.04	1.8	6.50	21.45	164.98	12.07	39.78	14.19	46.79	82.80	273.00
462	3445.220	Pipe NPS 1 Sch.105, Piping Specification SB11	m	35.0	1.9	168.74	65.3	21.94	767.75	5,905.80	14.43	505.22	42.56	1,489.66	247.67	8,668.44
463	3445.230	Olet SW Class 3000 NPS 1, Piping Specification SB11	ea	6.0	0.4	38.59	2.6	5.02	30.10	231.52	4.71	28.24	10.02	60.09	58.32	349.95
464	3445.240	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	23.0	0.6	53.83	13.7	7.00	160.94	1,238.00	8.08	185.79	14.28	328.36	83.18	1,913.09
465	3445.250	Lateral SW Class 3000 NPS 2, Piping Specification SB11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	9.64	0.00	32.90	0.00	191.37	0.00
466	3445.260	Concentric Reducer SW Class 3000 NPS 1 x 1/2, Piping Specification SB11	ea	29.0	0.6	54.07	17.3	7.03	203.83	1,567.96	221.52	6,424.17	57.30	1,661.84	339.92	9,857.81
467	3445.270	Weld NPS 1, Piping Specification SB11	ea	119.0	0.4	39.78	52.4	5.17	615.47	4,734.36	180.29	21,454.20	45.48	5,411.76	270.72	32,215.78
468	3445.280	Ball valve NPS 1, Valve Specification VBA11	ea	17.0	3.2	287.22	54.0	37.34	634.75	4,882.68	127.76	2,171.96	93.22	1,584.76	545.54	9,274.15
469	3445.290	Pipe identification NPS 1	Linear meter	29.7	0.6	50.59	16.6	6.58	195.18	1,501.40	12.06	358.00	14.32	424.92	83.56	2,479.50
470	3445.300	Pipe NPS 1 Sch.40, Piping Specification PA02	m	63.0	3.2	285.70	199.1	37.14	2,339.85	17,998.85	4.32	271.87	68.01	4,284.73	895.16	24,895.30
471	3445.310	Elbow 90 degrees SW Sch.40 NPS 1, Piping Specification PA02	ea	40.0	0.3	29.29	13.0	3.81	152.29	1,171.46	2.23	89.28	7.33	293.29	42.66	1,706.32
472	3445.320	Pipe identification NPS 2	LS	9.1	0.6	50.91	5.3	6.62	60.01	461.65	12.06	109.39	14.39	130.52	83.99	761.58
473	3445.330	Pipe NPS 2 Sch.105, Piping Specification SB11	m	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.99	0.00	17.45	0.00	101.63	0.00
474	3445.340	Pipe NPS 2 Sch.405, Piping Specification SB11	m	10.0	4.1	369.66	40.9	48.05	480.48	3,695.98	30.44	304.36	92.99	929.89	541.07	5,410.70
475	3445.350	Elbow 90 degrees BW Sch.105 NPS 2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.35	0.00	17.31	0.00	100.85	0.00
476	3445.360	Elbow 90 degrees BW Sch.405 NPS 2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.35	0.00	17.31	0.00	100.85	0.00
477	3445.370	Elbow 45 degrees BW Sch.405 NPS 2, Piping Specification SB11	ea	4.0	0.3	28.77	1.3	3.74	14.96	115.02	5.29	21.18	7.83	31.31	45.68	182.51
478	3445.380	Olet SW Class 3000 NPS 2, Piping Specification SB11	ea	3.0	0.4	38.86	1.3	4.99	14.96	115.07	8.67	26.01	10.76	32.28	62.77	188.31
479	3445.390	Flange Welding Neck 150RF Sch.105 NPS 2 c/w hardware, Piping Specification SB11	ea	8.0	2.7	243.30	21.5	31.63	253.06	1,946.43	12.23	97.83	59.64	477.14	346.80	2,774.43
480	3445.400	Reducing tee BW Sch.105 NPS 2 x 2 x 1, Piping Specification SB11	ea	6.0	1.2	107.23	7.1	13.94	83.62	643.26	23.14	138.85	29.86	179.14	174.15	1,044.88
481	3445.410	Concentric Reducer BW Sch.105 NPS 2 x 1, Piping Specification SB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	9.64	9.64	13.67	13.67	79.71	79.71
482	3445.420	Weld NPS 2, Piping Specification SB11	ea	103.0	1.5	139.51	158.9	18.14	1,868.02	14,369.41	230.37	23,727.75	79.08	8,145.07	467.09	48,110.25
483	3445.430	Ball valve NPS 2, Valve Specification VBA11	ea	8.0	4.8	430.98	38.1	56.03	448.22	3,447.83	310.28	2,482.23	163.75	1,310.03	961.04	7,688.31
484	3445.440	Pipe identification NPS 2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
485	3445.450	Pipe NPS 2 Sch.40, Piping Specification PA02	m	16.0	6.3	568.14	100.6	73.86	1,181.73	9,090.23	10.12	161.94	135.56	2,168.94	787.68	12,602.85

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT					NON LABOUR COMPONENT					
							0.13								
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
486	3445.460	Elbow 90 degrees SW Sch.40 NPS 2, Piping Specification PA02	ea	9.0	0.3	29.27	2.9	3.80	34.24	263.40	9.47	85.24	8.78	79.06	51.33	461.94
487	3445.470	Pipe identification NPS 2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
488	3445.480	Olet BW Sch.STD NPS 6, Piping Specification CB11	ea	1.0	2.7	248.15	2.7	32.26	32.26	248.15	169.19	169.19	92.38	92.38	541.99	541.99
489	3445.490	Elbow 45 degrees BW Sch.STD NPS 6, Piping Specification CB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	19.37	19.37	30.95	30.95	180.34	180.34
490	3445.500	Flange Welding Neck 150RF Sch.STD NPS 6 c/w hardware, Piping Specification CB11	ea	1.0	68.4	6,187.23	68.4	804.34	804.34	6,187.23	293.15	293.15	1,513.11	1,513.11	8,797.83	8,797.83
491	3445.510	Weld NPS 6, Piping Specification CB11	ea	3.0	0.0	0.00	0.0	0.00	0.00	0.00	719.93	2,159.78	144.94	434.82	864.87	2,594.60
492	3445.520	Ball valve NPS 6, Valve Specification VBA01	ea	1.0	7.5	676.53	7.5	87.95	87.95	676.53	2,867.35	2,867.35	736.27	736.27	4,368.10	4,368.10
493	3445.530	Pipe painting NPS 6	Linear meter	6.0	0.0	0.00	0.0	0.00	0.00	0.00	37.48	224.82	7.54	45.26	45.02	270.07
494	3445.540	Pipe identification NPS 6	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
495	3445.550	Pipe NPS 8 Sch.STD, Piping Specification CB11	m	13.0	18.9	1,709.36	245.8	222.22	2,888.81	22,221.64	98.22	1,276.82	421.50	5,479.46	2,451.29	31,866.73
496	3445.560	Elbow 90 degrees BW Sch.STD NPS 8, Piping Specification CB11	ea	4.0	0.6	57.88	2.6	7.52	30.10	231.52	51.49	205.98	23.97	95.88	140.87	563.48
497	3445.570	Elbow 45 degrees BW Sch.STD NPS 8, Piping Specification CB11	ea	4.0	0.3	28.77	1.3	3.74	14.96	115.07	40.46	161.84	14.91	59.63	87.87	351.50
498	3445.580	Flange Welding Neck 150RF Sch.STD NPS 8 c/w hardware, Piping Specification CB11	ea	8.0	21.7	1,965.31	173.9	255.49	2,043.92	15,722.49	342.97	2,743.74	530.92	4,247.40	3,094.69	24,757.55
499	3445.590	Concentric Reducer BW Sch.STD NPS 8 x 6, Piping Specification CSB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	23.53	0.00	12.56	0.00	73.69	0.00
500	3445.600	Weld NPS 8, Piping Specification CB11	ea	24.0	3.8	346.47	92.0	45.04	1,080.99	8,315.27	310.88	7,461.05	144.01	3,456.32	846.40	20,313.62
501	3445.610	Butterfly valve NPS 8, Valve Specification VBu01	ea	4.0	7.9	717.78	31.8	93.31	373.24	2,871.11	775.70	3,102.79	324.86	1,299.43	1,911.64	7,646.57
502	3445.620	Pipe painting NPS 8	Linear meter	11.2	0.0	0.00	0.0	0.00	0.00	0.00	130.44	1,461.56	26.26	294.25	156.71	1,755.81
503	3445.630	Pipe identification NPS 8	Linear meter	3.8	0.6	52.00	2.2	6.76	25.77	198.25	12.06	45.99	14.65	55.86	85.48	325.87
504	3445.640	Pipe NPS 12 Sch.STD, Piping Specification CB11	m	26.0	3.3	301.42	86.7	39.18	1,018.81	7,836.99	129.52	3,367.62	96.91	2,519.79	567.05	14,743.21
505	3445.650	Flange Welding Neck 150RF Sch.STD NPS 12 c/w hardware, Piping Specification CB11	ea	15.0	5.9	530.14	88.0	68.92	1,033.77	7,952.04	171.37	2,570.51	159.09	2,386.37	929.51	13,942.68
506	3445.660	Flange Welding Neck 150FF Sch.STD NPS 12 c/w hardware, Piping Specification CB11	ea	3.0	39.4	3,563.36	118.3	463.24	1,389.71	10,690.07	883.78	2,651.35	1,015.36	3,046.09	5,925.74	17,777.22
507	3445.670	Weld NPS 12, Piping Specification CB11	ea	30.0	6.6	592.80	196.7	77.06	2,311.92	17,783.97	345.30	10,358.88	208.50	6,254.92	1,223.66	36,709.68
508	3445.680	Victaulic Coupling NPS 12, Style 77	ea	5.0	1.2	112.29	6.2	14.60	72.99	561.47	539.88	2,699.42	135.08	675.41	801.86	4,009.29
509	3445.690	Butterfly valve NPS 12, Valve Specification VBU01	ea	5.0	15.1	1,366.10	75.6	177.59	887.97	6,830.50	2,473.11	12,365.55	818.95	4,094.77	4,835.76	24,178.78
510	3445.700	Check valve NPS 12, Valve Specification VCH02	ea	3.0	11.9	1,072.57	35.6	139.43	418.30	3,217.70	20,259.42	60,778.25	4,330.81	12,992.43	25,802.23	77,406.68
511	3445.710	Pipe painting NPS 12	Linear meter	25.6	0.0	0.00	0.0	0.00	0.00	0.00	154.60	3,958.28	31.13	796.90	185.73	4,755.19
512	3445.720	Pipe identification NPS 12	Linear meter	8.7	0.5	49.49	4.7	6.43	55.69	428.17	12.06	104.42	14.06	121.69	82.05	710.17
513	3445.730	Pipe NPS 16 Sch.STD, Piping Specification CB11	m	13.0	2.6	237.28	34.1	30.85	401.00	3,084.60	174.53	2,268.84	90.90	1,181.71	533.55	6,936.15
514	3445.740	Elbow 90 degrees Long RadiusSch.STD NPS 16, Piping Specification SB11	ea	6.0	1.2	104.44	6.9	13.58	81.46	626.62	211.81	1,270.84	67.19	403.13	397.01	2,382.05
515	3445.750	Flange Welding Neck 150RF Sch.STD NPS 16 c/w hardware, Piping Specification CB11	ea	6.0	3.0	266.64	17.7	34.66	207.98	1,599.84	137.28	823.67	90.30	541.81	528.88	3,173.30
516	3445.760	Victaulic Coupling NPS 16, Style 231	ea	4.0	1.4	123.73	5.5	16.08	64.34	494.92	5,134.99	20,539.94	1,062.88	4,251.53	6,337.68	25,350.73
517	3445.770	Weld NPS 16, Piping Specification CB11	ea	21.0	19.1	1,728.30	401.5	224.68	4,718.27	36,294.39	278.32	5,844.74	461.25	9,686.25	2,692.55	56,543.65
518	3445.780	Pipe painting NPS 16	Linear meter	12.6	0.0	0.00	0.0	0.00	0.00	0.00	280.21	3,529.80	56.41	710.64	336.63	4,240.44
519	3445.790	Pipe identification NPS 16	Linear meter	4.3	0.5	49.65	2.4	6.45	27.93	214.88	12.06	52.20	14.10	61.00	82.27	356.02
520	3445.800	Pipe NPS 20 Sch.STD, Piping Specification CB11	m	4.0	12.5	1,134.37	50.2	147.47	589.87	4,537.49	354.37	1,417.46	337.93	1,351.74	1,974.14	7,896.56
521	3445.810	Flange Welding Neck 150RF Sch.STD NPS 20 c/w hardware, Piping Specification CB11	ea	11.0	3.3	298.44	36.3	38.80	426.77	3,282.85	261.83	2,880.12	122.85	1,351.37	721.92	7,941.11
522	3445.820	Weld NPS 20, Piping Specification CB11	ea	11.0	12.7	1,147.39	139.6	149.16	1,640.76	12,621.24	559.09	6,150.00	381.60	4,197.61	2,237.24	24,609.61
523	3445.830	Check valve NPS 20, Valve Specification VCH01	ea	1.0	20.1	1,814.72	20.1	235.91	1,814.72	14,592.25	14,592.25	3,364.27	3,364.27	20,007.16	20,007.16	
524	3445.840	Pipe painting NPS 20	Linear meter	2.2	0.0	0.00	0.0	0.00	0.00	0.00	259.70	576.24	52.29	116.02	311.98	692.28
525	3445.850	Pipe identification NPS 20	Linear meter	1.3	0.6	49.68	0.7	6.46	8.65	66.56	12.06	16.16	14.10	18.89	82.30	110.23
526	3445.860	Pipe NPS 24 Sch.STD, Piping Specification CB11	m	5.5	3.0	267.59	16.2	34.79	190.86	1,468.13	292.83	1,606.57	121.84	668.47	717.05	3,934.03
527	3445.870	Tee Sch.STD NPS 24, Piping Specification CB11	ea	1.0	3.8	346.59	3.8	45.06	45.06	346.59	977.13	977.13	278.18	278.18	1,646.95	1,646.95
528	3445.880	Reducing tee Sch.STD NPS 24 x 16, Piping Specification CB11	ea	3.0	3.8	346.58	11.5	45.06	135.17	1,039.75	1,020.04	3,060.13	286.81	860.43	1,698.49	5,095.48
529	3445.890	Cap BW Sch.STD NPS 24, Piping Specification CB11	ea	1.0	2.0	181.61	2.0	23.61	23.61	181.61	171.64	171.64	77.24	77.24	454.11	454.11
530	3445.900	Concentric Reducer BW Sch.STD NPS 24 x 20, Piping Specification CB11	ea	1.0	1.5	131.71	1.5	17.12	17.12	131.71	311.41	311.41	93.64	93.64	553.89	553.89
531	3445.910	Eccentric Reducer BW Sch.STD NPS 24 x 20, Piping Specification CB11	ea	2.0	1.6	140.03	3.1	18.20	36.41	280.05	370.26	740.51	107.45	214.89	635.93	1,271.86
532	3445.920	Weld NPS 24, Piping Specification CB11	ea	10.0	0.0	0.00	0.0	0.00	0.00	0.00	1,079.89	10,798.89	217.41	2,174.10	1,297.30	12,973.00
533	3445.930	Pipe painting NPS 24	Linear meter	5.5	0.0	0.00	0.0	0.00	0.00	0.00	432.88	2,374.97	87.15	478.14	520.03	2,853.11
534	3445.940	Pipe identification NPS 24	Linear meter	1.9	0.6	53.08	1.1	6.90	12.80	98.44	12.07	22.38	14.90	27.64	86.95	161.26
		OLS (Lubricating/Hydraulic Oil)					0.0	$0.00				$0.00		$0.00	$0.00	
535	3446.010	Oil storage tank 3446-TK-6000 / 6001	ea	2.0	305.9	27,658.18	611.9	3,595.56	7,191.13	55,316.36	61,687.27	123,374.55	18,919.32	37,838.64	111,860.34	223,720.67
536	3446.020	Level transmitter 3446-LT-6000 / 6001	ea	2.0	36.5	3,299.49	73.0	428.93	857.87	6,598.98	24,495.37	48,990.73	5,706.98	11,413.96	33,930.77	67,861.54
537	3446.030	Mobile pumping-filtering unit 3446-OMP-5000	ea	1.0	0.0	0.00	0.0	0.00	0.00	0.00	74,351.42	74,351.42	14,968.86	14,968.86	89,320.28	89,320.28
538	3446.040	Pipe NPS 1/2 Sch.XS, Piping Specification CB11	m	0.0	0.4	33.27	0.0	4.33	0.00	0.00	106.17	0.00	29.20	0.00	172.96	0.00
539	3446.050	Olet SW Class 3000 NPS 1/2, Piping Specification CB11	ea	2.0	0.5	41.59	0.9	5.41	10.81	83.18	4.90	9.81	10.76	21.53	62.66	125.32
540	3446.060	Weld NPS 1/2, Piping Specification CB11	ea	6.0	0.0	0.00	0.0	0.00	0.00	0.00	176.71	1,060.26	35.58	213.46	212.29	1,273.71
541	3446.070	Ball valve NPS 1/2, Valve Specification VBA02	ea	2.0	2.2	198.25	4.4	25.77	51.55	396.50	63.88	127.75	59.45	118.89	347.35	694.69
542	3446.080	Pipe painting NPS 1/2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	105.06	0.00	21.15	0.00	126.21	0.00
543	3446.090	Pipe identification NPS 1/2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
544	3446.100	Pipe NPS 2 Sch.STD, Piping Specification CB11	m	1,296.0	2.6	234.03	3,354.9	30.42	39,429.82	303,306.28	11.65	15,100.88	57.35	74,321.64	333.46	432,158.62
545	3446.110	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification CB11	ea	219.0	0.4	37.51	90.9	4.88	1,068.01	8,215.46	14.48	3,170.23	11.73	2,569.01	68.60	15,022.71
546	3446.120	Elbow 45 degrees SW Class 3000 NPS 2, Piping Specification CB11	ea	38.0	0.2	19.55	8.2	2.54	96.60	743.07	16.08	610.95	7.83	297.62	46.01	1,748.24
547	3446.130	Elbow 45 degrees BW Sch.STD NPS 2, Piping Specification CB11	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	16.31	0.00	7.20	0.00	42.31	0.00
548	3446.140	Tee SW Class 3000 NPS 2, Piping Specification CB11	ea	29.0	0.8	75.10	24.1	9.76	283.13	2,177.95	19.98	579.54	21.67	628.53	126.52	3,669.15
549	3446.150	Expansion joint SS316L Plain ends x 12in long	ea	14.0	5.0	450.16	69.7	58.52	819.30	6,302.30	61.29	857.99	118.13	1,653.87	688.10	9,633.46
550	3446.160	Union SW Class 3000 NPS 2, Piping Specification CB11	ea	38.0	0.4	37.32	15.7	4.85	184.37	1,418.22	13.90	528.17	11.57	439.64	67.64	2,570.40
551	3446.170	Flange Welding Neck 150RF Sch.STD NPS 2 c/w hardware, Piping Specification CB11	ea	36.0	12.3	1,110.84	442.3	144.41	5,198.75	39,990.37	18.45	664.21	264.78	9,532.05	1,568.48	55,385.38
552	3446.180	Flange Slip-On 150RF NPS 2 c/w hardware, Piping Specification CB11	ea	2.0	0.5	41.59	0.9	5.41	10.81	83.18	6.13	12.26	11.01	22.02	64.13	128.27
553	3446.190	Weld NPS 2, Piping Specification CB11	ea	859.0	0.6	54.52	518.1	7.09	6,088.70	46,836.12	126.40	108,574.03	37.80	32,472.67	225.81	193,971.51
554	3446.200	Quick connect NPS 2, DRY LINK STYLE 260 HOUSING STD SS 316 SEAL VITON	ea	24.0	0.4	37.84	20.0	4.92	118.05	908.05	87.84	2,108.25	26.58	637.84	157.17	3,772.19
555	3446.210	Ball valve NPS 2, Valve Specification VBA02	ea	46.0	3.3	300.17	152.7	39.02	1,795.08	13,807.96	282.90	13,013.48	127.50	5,865.02	749.60	34,481.49
556	3446.220	Check valve NPS 2, Valve Specification VCH04	ea	18.0	3.3	300.61	59.9	39.08	703.42	5,410.89	187.99	3,383.87	108.49	1,952.89	636.17	11,451.07
557	3446.230	Pipe painting NPS 2	Linear meter	1,284.3	0.0	0.00	0.0	0.00	0.00	0.00	48.32	62,056.88	9.73	12,493.65	58.05	74,550.53
558	3446.240	Pipe identification NPS 2	Linear meter	435.7	0.6	50.47	243.3	6.56	2,858.90	21,991.52	12.06	5,256.83	14.29	6,226.66	83.38	36,333.90
		ODS (Oily Water Drainage)					0.0	$0.00				$0.00		$0.00	$0.00	
559	3447.010	Oil Skimmer 3447-OS-6000	ea	1.0	94.9	8,578.68	94.9	1,115.23	1,115.23	8,578.68	18,637.84	18,637.84	5,768.39	5,768.39	34,100.14	34,100.14
560	3447.020	Oil sheen detector 3447-LSH-5000	ea	1.0	18.3	1,649.74	18.3	214.47	214.47	1,649.74	26,235.86	26,235.86	5,669.67	5,669.67	33,769.74	33,769.74
561	3447.030	Pipe NPS 4 Sch.STD, Piping Specification CB11	m	40.0	5.4	491.63	217.5	63.91	2,556.48	19,665.23	51.16	2,046.27	125.84	5,033.59	732.54	29,301.56
562	3447.040	Elbow 90 degrees BW Sch.STD NPS 4, Piping Specification CB11	ea	8.0	1.8	158.74	14.1	20.64	165.08	1,269.88	10.67	85.33	39.45	315.61	229.49	1,835.91
563	3447.050	Elbow 45 degrees BW Sch.STD NPS 4, Piping Specification CB11	ea	4.0	0.9	78.33	3.5	10.18	40.73	313.32	7.60	30.41	19.94	79.75	116.05	464.21
564	3447.060	Weld NPS 4, Piping Specification CB11	ea	33.0	1.7	149.47	54.6	19.43	641.24	4,932.59	210.30	6,939.82	77.06	2,542.96	456.26	15,056.61
565	3447.070	Pipe painting NPS 4	Linear meter	39.8	0.0	0.00	0.0	0.00	0.00	0.00	51.53	2,050.52	10.37	412.82	61.91	2,463.33

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 15%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x J
566	3447.080	Pipe identification NPS 4	Linear meter	13.5	0.6	50.12	7.5	6.52	87.95	676.53	12.06	162.84	14.21	191.77	82.91	1,119.09
567	3447.090	Pipe NPS 6 Sch.STD, Piping Specification CB11	m	36.9	3.2	293.01	119.5	38.09	1,404.85	10,806.52	50.32	1,855.83	78.99	2,913.32	460.41	16,980.52
568	3447.100	Elbow 90 degrees BW Sch.STD NPS 4, Piping Specification CB11	ea	8.0	3.8	340.35	30.1	44.25	353.96	2,722.77	19.66	157.25	83.94	671.56	488.19	3,905.54
569	3447.110	Weld NPS 6, Piping Specification CB11	ea	13.0	6.6	599.01	86.1	77.87	1,012.32	7,787.07	199.84	2,597.94	179.72	2,336.31	1,056.43	13,733.63
570	3447.120	Pipe painting NPS 6	Linear meter	36.9	0.0	0.00	0.0	0.00	0.00	0.00	69.54	2,565.42	14.00	516.49	83.54	3,081.91
571	3447.130	Pipe identification NPS 6	Linear meter	12.5	0.6	50.26	6.9	6.53	81.46	626.62	12.06	150.41	14.24	177.55	83.10	1,036.04
		WCS (Raw/Cooling Water)					0.0	50.00							50.00	
572	3448.001	Self cleaning strainer 3448-STM-1000 / 2000 / 3000 / 4000	ea	4.0	83.1	7,510.50	332.3	976.37	3,905.46	30,042.00	70,020.13	280,080.53	15,861.94	63,447.75	94,368.94	377,475.74
573	3448.002	Strainer 3448-STR-1000 2000 / 3000 / 4000	ea	4.0	4.8	433.23	19.2	56.32	225.28	1,732.92	0.00	0.00	101.82	407.27	591.37	2,365.47
574	3448.003	Air vent 3448-AV-1001 / 2001 / 3001 / 4001 / 6000 to 6003	ea	16.0	10.9	989.85	175.2	128.68	2,058.88	15,837.54	3,360.17	53,762.80	909.12	14,545.89	5,387.82	86,205.11
575	3448.004	Pressure indicator 3448-PI-1000 to 1002 / 2000 to 2002 / 3000 to 3002 / 4000 to 4002	ea	12.0	3.7	329.95	43.8	42.89	514.72	3,959.39	84.10	1,009.25	94.48	1,133.70	551.42	6,617.07
576	3448.005	Differential pressure indicator 3448-PDI-1000 / 2000 / 3000 / 4000	ea	4.0	14.6	1,319.80	58.4	171.57	686.29	5,279.18	2,967.37	11,869.47	907.58	3,630.32	5,366.31	21,465.26
577	3448.006	Differential pressure switch 3448-PDS-1000 / 2000 / 3000 / 4000	ea	4.0	7.3	659.90	29.2	85.79	343.15	2,639.59	1,263.06	5,052.23	409.37	1,637.48	2,418.11	9,672.44
578	3448.007	temperature transmitter 3448-TT-1001 / 1003 / 2001 / 2003 / 3001 / 3003 / 4001 / 4003	ea	8.0	29.2	2,639.59	233.6	343.15	2,745.18	21,116.74	5,077.91	40,623.27	1,642.66	13,141.25	9,703.31	77,626.44
579	3448.008	Control Panel 3448-CP-1001 / 2001 / 3001 / 4001	ea	4.0	18.6	1,678.86	74.3	218.25	873.01	6,715.43	7,457.52	29,830.09	1,895.95	7,583.79	11,250.58	45,002.32
580	3448.009	Pipe NPS 3/4 Sch.10S, Piping Specification SB11	m	8.0	1.8	160.86	14.2	20.91	167.25	1,286.52	7.62	60.97	39.34	314.62	228.73	1,829.36
581	3448.010	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	6.0	0.6	54.99	3.7	7.15	42.89	329.95	5.37	32.20	14.00	84.01	81.51	489.05
582	3448.011	Olet SW Class 3000 NPS 3/4, Piping Specification SB11	ea	9.0	0.6	51.29	5.1	6.67	60.01	461.65	10.09	90.84	14.09	126.78	82.14	739.29
583	3448.012	Weld NPS 3/4, Piping Specification SB11	ea	16.0	0.4	36.13	6.4	4.70	75.15	578.11	188.11	3,009.69	46.22	739.55	275.16	4,402.51
584	3448.013	Ball valve NPS 3/4, Valve Specification VBA11	ea	1.0	3.1	280.05	3.1	36.41	36.41	280.05	100.39	100.39	86.02	86.02	502.87	502.87
585	3448.014	Pipe identification NPS 3/4	Linear meter	2.7	0.5	49.16	1.5	6.39	17.12	131.71	12.07	32.32	13.98	37.46	81.60	218.62
586	3448.015	Pipe NPS 1 Sch.10S, Piping Specification SB11	m	11.0	1.9	168.00	20.4	21.84	240.24	1,847.99	13.37	147.10	42.17	463.92	245.39	2,699.25
587	3448.016	Pipe NPS 1 Sch.40S, Piping Specification SB11	m	0.0	7.7	693.16	0.0	90.11	0.00	0.00	3,553.66	0.00	878.35	0.00	5,215.28	0.00
588	3448.017	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification SB11	ea	12.0	0.6	53.61	7.1	6.97	83.62	643.26	8.11	97.36	14.23	170.77	82.92	995.01
589	3448.018	Olet SW Class 3000NPS 1, Piping Specification SB11	ea	20.0	0.6	53.65	11.9	6.97	139.49	1,073.03	17.64	352.73	16.16	323.20	94.42	1,888.46
590	3448.019	Union SW Class 3000 NPS 1, Piping Specification SB11	ea	20.0	0.5	43.74	9.7	5.69	113.72	874.78	16.23	324.52	13.55	270.92	79.20	1,583.94
591	3448.020	Victaulic coupling NPS 1, Style 77	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	23.70	0.00	16.49	0.00	96.59	0.00
592	3448.021	Weld NPS 1, Piping Specification SB11	ea	132.0	0.5	45.25	66.1	5.88	776.41	5,972.36	224.70	29,660.67	55.77	7,361.60	331.60	43,771.04
593	3448.022	Ball valve NPS 1, Valve Specification VBA11	ea	12.0	3.2	287.32	38.1	37.35	448.22	3,447.83	127.76	1,533.14	93.25	1,118.95	545.68	6,548.14
594	3448.023	Pipe insulation NPS 1	Linear meter	68.3	3.3	300.68	227.1	39.09	2,668.76	20,528.93	184.63	12,605.49	90.44	6,174.87	614.83	41,978.05
595	3448.024	Pipe identification NPS 1	Linear meter	23.1	0.6	50.76	13.0	6.60	152.29	1,171.46	12.06	278.44	14.36	331.37	83.78	1,933.57
596	3448.025	Pipe NPS 1 Sch.40, Piping Specification PA02	m	57.0	3.5	317.50	200.2	41.27	2,352.65	18,097.29	4.32	246.06	75.49	4,302.67	438.57	24,998.67
597	3448.026	Elbow 90 degrees SW Sch.40 NPS 1, Piping Specification PA02	ea	20.0	0.3	29.67	6.6	3.86	77.14	593.35	0.99	19.86	7.17	143.44	41.69	833.78
598	3448.027	Elbow 45 degrees SW Sch.40 NPS 1, Piping Specification PA02	ea	12.0	0.3	24.72	3.3	3.21	38.57	296.68	1.04	12.50	6.02	72.23	35.00	419.99
599	3448.028	Pipe identification NPS 1	Linear meter	21.4	0.6	50.78	12.0	6.60	141.48	1,088.28	12.06	258.55	14.36	307.81	83.81	1,796.12
600	3448.029	Pipe NPS 1-1/2 Sch.10S, Piping Specification SB11	m	12.0	2.0	178.77	23.7	23.24	278.81	2,144.67	16.96	203.43	45.43	544.98	264.39	3,171.89
601	3448.030	Pipe NPS 1-1/2 Sch.40S, Piping Specification SB11	m	0.0	0.7	66.54	0.0	8.65	0.00	0.00	11.47	0.00	17.95	0.00	104.62	0.00
602	3448.031	Elbow 90 degrees SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	16.0	0.6	53.63	9.5	6.97	111.56	858.14	19.98	319.64	16.63	266.04	97.21	1,555.37
603	3448.032	Union SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	40.35	161.41	20.75	83.00	121.80	487.22
604	3448.033	Weld NPS 1-1/2, Piping Specification SB11	ea	48.0	0.6	57.39	30.5	7.46	358.11	2,754.66	238.91	11,467.67	61.40	2,947.16	365.16	17,527.60
605	3448.034	Ball valve NPS 1-1/2, Valve Specification VBA11	ea	4.0	3.2	288.71	12.8	37.53	150.13	1,154.83	209.90	839.58	110.11	440.44	646.24	2,584.98
606	3448.035	Pipe identification NPS 1-1/2	Linear meter	4.1	0.6	52.14	2.4	6.78	27.93	214.88	12.06	49.72	14.68	60.51	85.66	353.05
607	3448.036	Pipe NPS 2 Sch.10S, Piping Specification SB11	m	67.0	2.1	190.59	141.3	24.78	1,660.05	12,769.58	23.79	1,594.05	49.58	3,321.96	288.74	19,345.64
608	3448.037	Pipe NPS 2 Sch.40S, Piping Specification SB11	m	4.0	0.6	53.72	2.4	6.98	27.93	214.88	17.51	70.04	16.15	64.60	94.36	377.45
609	3448.038	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	37.0	0.6	53.95	22.1	7.01	259.52	1,996.33	31.56	1,167.65	19.03	704.24	111.56	4,127.75
610	3448.039	Elbow 45 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	7.0	0.3	25.94	2.0	3.37	23.61	181.61	34.72	243.07	13.09	91.62	77.13	539.92
611	3448.040	Union SW Class 3000 NPS 2, Piping Specification SB11	ea	9.0	0.6	53.14	5.3	6.91	62.18	478.28	56.37	507.29	23.84	214.53	140.25	1,262.28
612	3448.041	Tee SW Class 3000 NPS 2, Piping Specification SB11	ea	4.0	1.2	107.09	4.7	13.92	55.69	428.37	47.03	188.10	34.63	138.54	202.68	810.70
613	3448.042	Concentric Reducer SW Class 300 0NPS 2 x 1, Piping Specification SB11	ea	4.0	0.7	62.04	2.7	8.06	32.26	248.15	21.58	86.32	18.93	75.70	110.61	442.44
614	3448.043	Olet SW Class 3000 NPS 2, Piping Specification SB11	ea	13.0	0.6	52.04	7.5	6.77	87.95	676.53	32.30	419.93	18.73	243.54	109.84	1,427.95
615	3448.044	Victaulic coupling NPS 2, Style 77	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	41.95	167.80	21.07	84.28	123.73	494.90
616	3448.045	Weld NPS 2, Piping Specification SB11	ea	242.0	0.9	80.79	216.3	10.50	2,541.52	19,550.18	259.61	62,826.33	71.15	17,217.37	422.05	102,135.40
617	3448.046	Ball valve NPS 2, Valve Specification VBA11	ea	25.0	21.7	1,957.90	541.4	254.53	6,363.18	48,947.52	269.98	6,749.50	514.49	12,862.24	2,996.90	74,922.43
618	3448.047	Pipe insulation NPS 2	Linear meter	67.4	3.6	323.26	240.9	42.02	2,830.78	21,775.24	210.87	14,204.24	99.73	6,717.58	675.88	45,527.85
619	3448.048	Pipe identification NPS 2	Linear meter	22.8	0.6	50.71	12.8	6.59	150.13	1,154.83	12.06	274.71	14.35	326.70	83.72	1,906.37
620	3448.049	Pipe NPS 4 Sch.10S, Piping Specification SB11	m	64.0	2.0	178.38	126.3	23.19	1,484.15	11,416.50	49.92	3,195.01	51.97	3,326.29	303.47	19,421.94
621	3448.050	Elbow 45 degree BW Sch.10S NPS 4, Piping Specification SB11	ea	4.0	0.5	41.25	1.8	5.36	21.45	164.98	13.95	55.80	12.50	50.01	73.06	292.23
622	3448.051	Flange Welding Neck 150RF Sch.10S NPS 4 c/w hardware, Piping Specification SB11	ea	16.0	2.3	209.34	37.1	27.21	435.42	3,349.39	31.71	507.35	55.58	889.30	323.84	5,181.46
623	3448.052	Olet BW Sch.10S NPS 4, Piping Specification SB11	ea	8.0	0.9	84.57	7.5	10.99	87.95	676.53	654.52	5,236.14	151.64	1,213.15	901.72	7,213.77
624	3448.053	Victaulic Elbow 90 degrees NPS 4, Style 410SS	ea	12.0	0.9	83.87	11.1	10.90	130.84	1,006.48	217.49	2,609.91	63.50	761.98	375.77	4,509.21
625	3448.054	Victaulic Elbow 45 degrees NPS 4, Style 410SS	ea	4.0	0.5	41.25	1.8	5.36	21.45	164.98	199.05	796.18	49.77	199.07	295.42	1,181.67
626	3448.055	Victaulic Coupling NPS 4, Style 77DX	ea	0.0	2.0	181.61	0.0	23.61	0.00	0.00	81.88	0.00	59.16	0.00	346.26	0.00
627	3448.056	Victaulic Coupling NPS 4, Style 77	ea	37.0	0.9	83.82	34.3	10.90	403.16	3,101.24	914.90	33,851.45	203.89	7,544.01	1,213.51	44,899.87
628	3448.057	Victaulic Coupling NPS 4, Style 89	ea	0.0	2.0	181.61	0.0	23.61	0.00	0.00	192.51	0.00	81.43	0.00	479.16	0.00
629	3448.058	Weld NPS 4, Piping Specification SB11	ea	107.0	7.9	710.78	841.2	92.40	9,886.92	76,053.74	181.96	19,469.81	203.26	21,748.60	1,188.40	127,158.58
630	3448.059	Pipe insulation NPS 4	Linear meter	63.4	6.2	560.67	393.2	72.89	4,620.95	35,545.76	346.41	21,961.85	169.07	10,719.10	1,149.04	72,847.66
631	3448.060	Pipe identification NPS 2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
632	3448.061	Pipe NPS 6 Sch.10S, Piping Specification SB11	m	101.0	6.5	588.19	657.1	76.47	7,722.97	59,407.45	33.01	3,333.78	144.88	14,632.79	842.54	85,096.97
633	3448.062	Olet BW Sch.10S NPS 6, Piping Specification SB11	ea	7.0	1.9	174.48	13.5	22.68	158.78	1,221.37	454.70	3,182.90	132.55	927.84	784.41	5,490.90
634	3448.063	Flange Welding Neck 150RF Sch.10S NPS 6 c/w hardware, Piping Specification SB11	ea	168.0	3.6	323.17	600.6	42.01	7,058.12	54,293.24	5.50	923.51	77.06	12,945.64	447.74	75,220.52
635	3448.064	Victaulic Elbow 90 degrees NPS 6, Style 410SS	ea	12.0	1.4	125.12	16.6	16.27	195.18	1,501.40	574.22	6,890.65	145.01	1,740.11	860.61	10,327.35
636	3448.065	Victaulic Coupling NPS 6, Style 89	ea	48.0	1.4	125.78	66.8	16.35	784.88	6,037.51	129.40	6,211.22	55.61	2,669.37	327.15	15,702.97
637	3448.066	Weld NPS 6, Piping Specification SB11	ea	93.0	10.1	910.56	936.7	118.37	11,008.64	84,681.81	269.20	25,035.95	267.71	24,897.05	1,565.84	145,623.44
638	3448.067	Pipe insulation NPS 6	Linear meter	101.2	7.5	680.03	761.2	88.40	8,945.97	68,815.16	491.78	49,764.70	219.49	22,210.79	1,479.70	149,736.61
639	3448.068	Pipe identification NPS 6	Linear meter	34.2	0.6	50.66	19.2	6.59	225.28	1,732.92	12.06	412.69	14.33	490.35	83.64	2,861.24
640	3448.069	Pipe NPS 10 Sch.10S, Piping Specification SB11	m	68.3	2.8	253.23	191.2	32.92	2,247.58	17,289.05	207.72	14,181.96	101.33	6,918.38	595.19	40,636.96
641	3448.070	Elbow 90 degrees Long Radius Sch.10S NPS 10, Piping Specification SB11	ea	4.0	2.5	222.85	9.9	28.97	115.88	891.41	212.19	848.76	95.09	380.38	559.11	2,236.43
642	3448.071	Eccentric Reducer Sch.10S NPS 10 x 6, Piping Specification SB11	ea	4.0	1.1	103.28	4.6	13.43	53.71	413.13	182.98	731.92	61.11	244.44	360.80	1,443.20
643	3448.072	Victaulic coupling NPS 10, Style 89	ea	20.0	2.5	224.38	49.6	29.17	583.39	4,487.58	498.77	9,975.34	153.15	3,062.94	905.46	18,109.24
644	3448.073	Victaulic Elbow 90 degrees NPS 10, Style 410SS	ea	4.0	2.5	222.85	9.9	28.97	115.88	891.41	1,970.21	7,880.84	449.03	1,796.11	2,671.06	10,684.25
645	3448.074	Weld NPS 10, Piping Specification SB11	ea	56.0	22.2	2,009.45	1,244.7	261.23	14,628.80	112,529.23	113.30	6,344.93	494.66	27,701.02	2,878.64	161,203.99
646	3448.075	Pipe insulation NPS 10	Linear meter	68.3	9.0	816.61	616.7	106.16	7,248.08	55,754.44	717.29	48,973.41	289.09	19,737.54	1,929.15	131,713.47
647	3448.076	Pipe identification NPS 10	Linear meter	23.1	0.6	50.76	13.0	6.60	152.29	1,171.46	12.06	278.44	14.36	331.37	83.78	1,933.57
648	3448.077	Pipe NPS 12 Sch.STD, Piping Specification CB11	m	20.0	2.5	222.72	49.3	28.95	579.06	4,454.31	191.88	3,837.64	90.97	1,819.46	534.52	10,690.46

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C+D+G+H	TOTAL PRICE J = A x I
649	3448.078	Elbow 45 degrees Sch.STD NPS 12, Piping Specification CB11	ea	3.0	0.7	60.54	2.0	7.87	23.61	181.61	122.19	366.58	38.83	116.48	229.42	688.27
650	3448.079	Tee BW Sch.STD NPS 12, Piping Specification CB11	ea	3.0	1.9	176.07	5.8	22.89	68.67	528.20	196.16	588.49	80.87	242.62	475.99	1,427.97
651	3448.080	Cap BW Sch.STD NPS 12, Piping Specification CB11	ea	2.0	1.0	90.81	2.0	11.80	23.61	181.61	50.27	100.53	31.47	62.93	184.34	368.68
652	3448.081	Weld NPS 12, Piping Specification CB11	ea	18.0	5.7	519.65	103.5	67.55	1,215.97	9,353.63	411.87	7,413.72	204.49	3,680.74	1,203.56	21,664.06
653	3448.082	Pipe insulation NPS 12	Linear meter	19.8	10.9	982.58	215.3	127.74	2,530.71	19,466.98	891.69	17,666.16	353.60	7,005.60	2,355.61	46,669.45
654	3448.083	Pipe identification NPS 12	Linear meter	6.7	0.5	49.26	3.7	6.40	42.89	329.95	12.06	80.80	14.01	93.81	81.74	547.45
655	3448.084	Pipe painting NPS 12	Linear meter	24.5	0.0	0.00	0.0	0.00	0.00	0.00	180.37	4,417.89	36.33	889.44	216.68	5,307.33
656	3448.085	Pipe NPS 14 Sch.10S, Piping Specification SB11	m	136.0	10.6	961.46	1,446.4	124.99	16,998.57	130,758.22	406.53	55,288.30	307.80	41,861.07	1,800.78	244,906.15
657	3448.086	Elbow 90 degrees Long Radius Sch.10S NPS 14, Piping Specification SB11	ea	24.0	1.6	147.82	39.2	19.22	461.35	3,547.64	512.35	12,296.40	137.89	3,309.33	817.27	19,614.55
658	3448.087	Elbow 45 degrees Sch.10S NPS 14, Piping Specification SB11	ea	4.0	0.8	74.17	3.3	9.64	38.57	296.68	307.41	1,229.62	79.32	317.29	470.54	1,882.17
659	3448.088	Flange Welding Neck 150FF Sch.10S NPS 14 c/w hardware, Piping Specification SB11	ea	72.0	6.0	541.67	431.4	70.42	5,070.07	39,000.52	460.87	33,182.65	220.09	15,846.22	1,293.05	93,099.46
660	3448.089	Flange Welding Neck 150RF Sch.10S NPS 14 c/w hardware, Piping Specification SB11	ea	0.0	6.4	578.11	0.0	75.15	0.00	0.00	9.64	0.00	137.80	0.00	800.71	0.00
661	3448.090	Flange Slip-On 150RF NPS 14 c/w hardware, Piping Specification SB11	ea	8.0	14.0	1,266.25	112.1	164.61	1,316.90	10,129.99	373.06	2,984.50	372.69	2,981.55	2,176.62	17,412.94
662	3448.091	Tee BW Sch.10S NPS 14, Piping Specification SB11	ea	12.0	3.3	295.64	39.2	38.43	461.19	3,547.64	774.20	9,290.39	225.35	2,704.14	1,333.61	16,003.37
663	3448.092	Eccentric Reducer BW Sch.10S NPS 14 x 6, Piping Specification SB11	ea	8.0	1.0	90.81	8.0	11.80	94.44	726.44	694.32	5,554.59	161.13	1,289.01	958.06	7,664.47
664	3448.093	Victaulic coupling NPS 14, Style W77	ea	28.0	1.6	147.89	45.8	19.23	538.33	4,140.99	424.75	11,893.01	120.27	3,367.56	712.14	19,939.89
665	3448.094	Victaulic coupling NPS 14, Style 89	ea	16.0	1.6	147.47	26.1	19.17	306.74	2,359.56	641.64	10,266.17	163.84	2,621.37	972.11	15,553.84
666	3448.095	Victaulic Elbow 90 degrees NPS 14, Style W100SS	ea	8.0	1.6	148.51	13.1	19.31	154.45	1,188.39	4,202.43	33,619.46	880.96	7,047.68	5,251.21	42,009.69
667	3448.096	Victaulic Eccentric Reducer NPS 14 x 10, Style W515S	ea	4.0	1.0	90.81	4.0	11.80	47.22	363.23	2,978.44	11,913.78	620.98	2,483.91	3,702.04	14,808.14
668	3448.097	Weld NPS 14, Piping Specification SB11	ea	246.0	14.7	1,330.39	3,620.1	172.95	42,545.90	327,276.12	500.09	123,023.18	413.09	101,619.71	2,416.57	594,464.90
669	3448.098	Butterfly Valve NPS 14, Valve Specification VBU01	ea	28.0	13.7	1,237.31	383.2	160.85	4,503.80	34,644.65	1,633.53	45,738.84	619.66	17,350.42	3,651.35	102,237.71
670	3448.099	Check Valve FF NPS 14, Valve Specification VCH01	ea	4.0	13.7	1,237.31	54.7	160.85	643.40	4,949.24	7,756.98	31,027.94	1,852.47	7,409.87	11,007.61	44,030.45
671	3448.100	Pipe insulation NPS 14	Linear meter	136.6	12.4	1,117.24	1,687.5	145.24	19,832.77	152,559.80	725.87	99,118.09	344.08	46,983.86	2,332.47	318,494.52
672	3448.101	Pipe identification NPS 14	Linear meter	46.2	0.6	50.39	25.7	6.55	302.42	2,326.27	12.06	556.89	14.27	658.82	83.28	3,844.39
673	3448.102	Pipe NPS 16 Sch.10S , Piping Specification SB11	m	131.0	2.7	240.15	348.0	31.22	4,089.83	31,460.22	556.71	72,929.17	168.52	22,076.14	996.61	130,555.37
674	3448.103	Flange Welding Neck 150RF Sch.10S NPS 16 c/w hardware, Piping Specification SB11	ea	1,038.0	1.0	88.42	1,015.2	11.49	11,930.84	91,775.74	12.48	12,956.57	23.29	24,177.14	135.68	140,840.28
675	3448.104	Blind Flange 150RF NPS 16 c/w hardware, Piping Specification SB11	ea	1.0	1.8	164.98	1.8	21.45	21.45	164.98	647.57	647.57	169.15	169.15	1,003.14	1,003.14
676	3448.105	Reducing Tee BW Sch.10S NPS 16 x 16 x 14, Piping Specification SB11	ea	4.0	3.7	338.27	15.0	43.97	175.90	1,353.07	1,069.68	4,278.70	294.85	1,179.41	1,746.77	6,987.08
677	3448.106	Eccentric Reducer BW Sch.10S NPS 16 x 12, Piping Specification SB11	ea	1.0	1.1	98.44	1.1	12.80	12.80	98.44	757.71	757.71	175.68	175.68	1,044.63	1,044.63
678	3448.107	Victaulic Reducing Tee NPS 16 x 16 x 14, Style W77	ea	4.0	3.7	338.27	15.0	43.97	175.90	1,353.07	6,294.99	25,175.95	1,346.64	5,386.55	8,022.87	32,091.47
679	3448.108	Victaulic coupling NPS 16, Style W77	ea	28.0	1.9	168.94	54.2	21.96	636.91	4,899.32	545.65	15,823.76	149.54	4,337.14	886.11	25,697.13
680	3448.109	Weld NPS 16, Piping Specification SB11	ea	91.0	21.4	1,933.82	1,946.5	251.40	22,877.12	175,977.8	212.27	19,316.90	496.84	45,212.77	2,894.34	263,384.66
681	3448.110	Butterfly Valve NPS 16, Valve Specification VBU01	ea	3.0	15.6	1,413.14	46.9	183.71	551.14	4,239.43	2,327.09	6,981.28	800.61	2,401.84	4,724.56	14,173.68
682	3448.111	Pipe insulation NPS 16	Linear meter	131.7	10.0	907.95	1,322.4	118.03	15,542.00	119,553.82	809.44	106,582.13	323.82	42,638.96	2,159.25	284,316.91
683	3448.112	Pipe identification NPS 16	Linear meter	44.5	0.6	50.39	24.8	6.55	291.60	2,243.09	12.06	537.00	14.27	635.28	83.28	3,706.96
		WSS (Service Water)					0.0		0.00	0.00		0.00		0.00	0.00	0.00
684	3449.001	Service water pump 3449-P-6000 to 6002	ea	3.0	171.4	15,496.51	514.2	2,014.55	6,043.64	46,489.53	31,251.41	93,754.23	9,933.62	29,800.86	58,696.08	176,088.25
685	3449.002	Y-strainer 3449-STR-5000 / 5001 / 8000 to 8004	ea	7.0	4.8	431.35	33.4	56.08	392.53	3,019.45	107.21	750.44	122.96	860.70	717.59	5,023.12
686	3449.003	Y-strainer 3449-STR-1000 / 1001 / 2000 / 2001 / 3000 / 3001 / 4000 / 4001	ea	8.0	6.3	565.11	50.0	73.46	587.72	4,520.85	94.59	756.75	151.85	1,214.82	885.02	7,080.13
687	3449.004	Pump suction diffuser 3449-PSD-6000 to 6002	ea	3.0	4.9	439.93	14.6	57.19	171.57	1,319.80	0.00	0.00	103.39	310.18	600.52	1,801.56
688	3449.005	Air vent 3449-AV-1000 / 1001 / 2000 / 2001 / 3000 / 3001 / 4000 / 4001 / 5000 / 5001 / 5002 / 8000 to 8004	ea	16.0	3.6	329.95	58.4	42.89	686.29	5,279.18	84.16	1,346.64	94.49	1,511.80	551.49	8,823.92
689	3449.006	Air vent 3449-AV-6000 / 8005	ea	2.0	11.0	989.85	21.9	128.68	257.36	1,979.70	3,330.12	6,660.23	903.07	1,806.14	5,351.71	10,703.43
690	3449.007	Pressure indicator 3449-PI-6000 to 6005	ea	6.0	3.7	329.95	21.9	42.89	257.36	1,979.70	84.10	504.63	94.48	566.86	551.42	3,308.55
691	3449.008	Pressure transmitter 3449-PT-6000 / 6001	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	7,963.56	15,927.12	1,758.36	3,516.71	10,467.61	20,935.21
691.1	691.100	HVAC Temperature transmitter (supply by HVAC and installed by Piping)	ea	1.0	109.5	9,898.47	109.5	1,286.80	1,286.80	9,898.47	0.00	0.00	2,326.29	2,326.29	13,511.56	**13,511.56**
691.2	691.200	HVAC Pressure transmitter (supply by HVAC and installed by Piping)	ea	1.0	120.4	10,888.32	120.4	1,415.48	1,415.48	10,888.32	0.00	0.00	2,558.92	2,558.92	14,862.72	**14,862.72**
692	3449.009	Variable frequency drive 3449-VFD-6000 to 6002	ea	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
693	3449.010	Control panel 3449-CP-6000 to 6003	ea	4.0	18.6	1,678.86	74.3	218.25	873.01	6,715.43	20,859.52	83,438.09	4,594.12	18,376.46	27,350.75	109,402.99
694	3449.011	Pipe NPS 1/2 Sch.10S , Piping Specification SB11	m	5.8	1.7	150.17	9.7	19.52	113.72	874.78	6.24	36.33	36.55	212.90	212.47	1,237.73
695	3449.012	Pipe NPS 1/2 Sch.40S, Piping Specification SB11	m	1.0	48.4	4,372.51	48.4	568.43	568.43	4,372.51	556.87	556.87	1,139.72	1,139.72	6,637.52	6,637.52
696	3449.013	Pipe NPS 1/2 Sch.80S, Piping Specification SB11	m	0.0	0.6	49.93	0.0	6.49	0.00	0.00	3.72	0.00	12.47	0.00	72.59	0.00
697	3449.014	Elbow 90 degrees SW Class 3000 NPS 1/2, Piping Specification SB11	ea	14.0	0.6	54.17	8.4	7.04	98.58	758.33	4.26	59.66	13.59	190.23	79.06	1,106.80
698	3449.015	Olet FNPT Sch.40S NPS 1/2, Piping Specification SB11	ea	31.0	0.6	53.75	18.4	6.99	216.63	1,666.38	10.68	331.04	14.78	458.27	86.20	2,672.33
699	3449.016	Olet SW Class 3000 NPS 1/2, Piping Specification SB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	10.54	10.54	13.84	13.84	80.78	80.78
700	3449.017	Union PE/NPT Sch.40S NPS 1/2, Piping Specification SB11	ea	24.0	0.6	53.61	14.2	6.97	167.25	1,286.57	9.76	234.35	14.56	349.54	84.90	2,037.66
701	3449.018	Weld NPS 1/2, Piping Specification SB11	ea	149.0	0.8	75.40	124.3	9.80	1,460.54	11,234.91	195.52	29,132.96	57.07	8,503.35	337.80	50,331.75
702	3449.019	Ball Valve NPS 1/2, Valve Specification VBA11	ea	20.0	3.2	287.04	63.5	37.32	746.31	5,740.84	104.76	2,095.30	88.55	1,771.01	517.67	10,353.46
703	3449.020	Pipe insulation NPS 1/2	Linear meter	113.4	3.3	300.88	377.4	39.11	4,434.96	34,115.07	165.85	18,805.17	86.70	9,830.10	592.54	67,185.29
704	3449.021	Pipe identification NPS 1/2	Linear meter	38.3	0.6	50.35	21.4	6.55	250.87	1,929.79	12.06	462.42	14.26	546.63	83.22	3,189.71
705	3449.022	Pipe NPS 1/2 Sch.40 , Piping Specification PA02	m	108.0	4.4	397.31	474.6	51.65	5,578.80	42,910.01	3.26	352.47	94.03	10,155.44	546.26	58,996.22
706	3449.023	Pipe NPS 1/2 Sch.80, Piping Specification PA02	m	9.0	1.0	87.98	8.8	11.44	102.91	791.60	4.30	38.72	21.54	193.82	125.26	1,127.05
707	3449.024	Elbow 90 degrees Sch.40 NPS 2, Piping Specification PA02	ea	62.0	0.3	29.37	20.1	3.81	235.91	1,814.72	0.57	35.48	6.99	433.63	40.64	2,519.74
708	3449.025	Elbow 45 degrees Sch.40 NPS 2, Piping Specification PA02	ea	9.0	0.2	16.48	1.6	2.14	19.28	148.34	0.80	7.21	4.04	36.32	23.46	211.15
709	3449.026	Union Sch.40 NPS 1/2, Piping Specification PA02	ea	11.0	0.3	30.00	3.7	3.90	42.89	329.95	4.93	54.20	8.04	88.45	46.86	515.49
710	3449.027	Tee Sch.40 NPS 1/2, Piping Specification PA02	ea	2.0	0.6	57.54	1.3	7.48	14.96	115.07	0.62	1.25	13.65	27.29	79.29	158.57
711	3449.028	Pipe identification NPS 1/2	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
712	3449.029	Pipe NPS 3/4 Sch.10S, Piping Specification SB11	m	206.0	1.8	166.41	379.2	21.63	4,456.58	34,281.42	7.99	1,645.02	40.72	8,387.82	236.75	48,770.84
713	3449.030	Pipe NPS 3/4 Sch.40S, Piping Specification SB11	m	2.0	0.4	33.27	0.7	4.33	8.65	66.54	13.14	26.29	10.47	20.93	61.20	122.41
714	3449.031	Olet SW Class 3000 NPS 3/4, Piping Specification SB11	ea	34.0	0.5	44.65	16.8	5.80	197.35	1,518.04	9.76	331.73	12.46	423.54	72.67	2,470.66
715	3449.032	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	111.0	0.6	53.95	66.3	7.01	778.57	5,989.00	5.37	595.75	13.76	1,527.45	80.10	8,890.77
716	3449.033	Elbow 45 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	24.0	0.3	26.80	7.3	3.48	83.62	643.26	8.45	202.75	8.00	191.99	46.73	1,121.63
717	3449.034	Elbow 45 degrees BE Sch.10s NPS 3/4, Piping Specification SB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	8.74	0.00	9.58	0.00	55.92	0.00
718	3449.035	Union SW Class 3000 NPS 3/4, Piping Specification SB11	ea	55.0	0.6	53.99	32.9	7.02	386.04	2,969.55	88.82	4,885.02	30.57	1,681.37	180.40	9,921.98
719	3449.036	Reducing Tee SW Class 3000 NPS 3/4 x 3/4 x 1/2, Piping Specification SB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	7.11	7.11	28.47	28.47	165.61	165.61
720	3449.037	Quick connect NPS 3/4, Hansen Series HK	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	11.67	0.00	56.76	0.00	330.05	0.00
721	3449.038	Weld NPS 3/4, Piping Specification SB11	ea	665.0	0.6	54.11	398.0	7.03	4,677.54	35,981.07	165.90	110,321.94	45.86	30,495.32	272.90	181,475.89
722	3449.039	Victaulic coupling NPS 3/4, Style 77	ea	9.0	0.6	53.14	5.3	6.91	62.18	478.28	282.98	2,546.85	69.46	625.15	412.50	3,712.46
723	3449.040	Ball Valve NPS 3/4, Valve Specification VBA11	ea	72.0	3.2	285.05	227.0	37.06	2,668.04	20,523.99	99.78	7,184.89	87.08	6,269.61	508.96	36,644.92
724	3449.041	Pipe insulation NPS 3/4	Linear meter	206.4	3.3	301.39	687.9	39.18	8,085.04	62,192.61	171.04	35,294.36	87.88	18,124.29	599.45	123,696.32
725	3449.042	Pipe identification NPS 3/4	Linear meter	38.8	0.6	50.54	21.7	6.57	255.20	1,963.06	12.06	468.63	14.31	555.70	83.47	3,242.58
726	3449.043	Pipe NPS 1 Sch.10S, Piping Specification SB11	m	22.0	2.2	200.20	48.7	26.03	572.57	4,404.40	285.90	6,289.87	104.61	2,301.41	616.74	13,568.26
727	3449.044	Pipe NPS 1 Sch.40S, Piping Specification SB11	m	14.0	0.6	54.17	8.4	7.04	98.58	758.33	13.15	184.04	15.38	215.26	89.73	1,256.21
728	3449.045	Union SW Class 3000 NPS 1, Piping Specification SB11	ea	25.0	0.6	54.12	15.0	7.04	175.90	1,353.07	110.99	2,774.72	35.06	876.62	207.21	5,180.31
729	3449.046	Olet SW Class 3000 NPS 1, Piping Specification SB11	ea	39.0	0.5	48.66	21.0	6.33	246.73	1,897.90	13.35	520.61	14.12	550.84	82.46	3,216.08

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x J
730	3449.047	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification SB11	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	8.11	32.45	14.26	57.04	83.08	332.30
731	3449.048	Weld NPS 1 Piping Specification SB11	ea	153.0	0.7	63.84	108.0	8.30	1,269.68	9,766.76	220.51	33,737.73	59.34	9,078.65	351.98	53,852.82
732	3449.049	Victaulic coupling NPS 1, Style 77	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	23.70	0.00	20.39	0.00	119.28	0.00
733	3449.050	Ball Valve NPS 1, Valve Specification VBA11	ea	20.0	3.1	278.79	61.7	36.24	724.86	5,575.87	158.73	3,174.53	97.48	1,949.53	571.24	11,424.80
734	3449.051	Pipe insulation NPS 1	Linear meter	31.4	3.3	298.12	103.5	38.76	1,216.69	9,359.19	183.05	5,746.62	89.67	2,815.11	609.58	19,137.61
735	3449.052	Pipe identification NPS 1	Linear meter	10.6	0.6	49.77	5.8	6.47	68.67	528.20	12.06	128.03	14.13	149.92	82.43	874.82
736	3449.053	Pipe NPS 1-1/4 Sch.10S, Piping Specification SB11	m	5.0	6.7	603.89	33.4	78.51	392.53	3,019.45	3,656.33	18,281.67	878.04	4,390.18	5,216.77	26,083.84
737	3449.054	Pipe NPS 1-1/4 Sch.40S, Piping Specification SB11	m	18.0	0.5	49.52	9.9	6.44	115.88	891.43	13.15	236.63	14.29	257.14	83.39	1,501.06
738	3449.055	Coupling Stainless Steel Compression MNPT 1.25inx1.25in	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	32.24	0.00	22.13	0.00	129.56	0.00
739	3449.056	Victaulic coupling NPS 1-1/4, Style 77	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	34.54	0.00	22.60	0.00	132.33	0.00
740	3449.057	Victaulic coupling NPS 1-1/4, Style 77DX	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	34.54	0.00	22.60	0.00	132.33	0.00
741	3449.058	Pipe insulation NPS 1-1/4	Linear meter	4.6	3.7	330.21	16.7	42.93	196.26	1,509.73	207.59	949.11	100.30	458.56	681.03	3,113.67
742	3449.059	Pipe identification NPS 1-1/4	Linear meter	1.5	0.6	53.82	0.9	7.00	10.81	83.18	12.06	18.64	15.08	23.31	87.96	135.95
743	3449.060	Pipe NPS 1-1/2 Sch.10S, Piping Specification SB11	m	173.0	2.1	191.11	365.7	24.84	4,297.99	33,061.45	28.06	4,854.41	50.56	8,747.24	294.57	50,961.09
744	3449.061	Pipe NPS 1-1/2 Sch.40S, Piping Specification SB11	m	0.0	0.7	66.54	0.0	8.65	0.00	0.00	11.47	0.00	17.95	0.00	104.62	0.00
745	3449.062	Elbow 90 degrees SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	91.0	0.6	53.84	54.2	7.00	636.91	4,899.32	19.98	1,817.97	16.68	1,517.43	97.49	8,871.64
746	3449.063	Elbow 45 degrees SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	17.0	0.3	27.16	5.1	3.53	60.01	461.65	19.08	324.41	10.22	173.82	59.99	1,019.89
747	3449.064	Union SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	77.0	0.6	54.00	46.0	7.02	540.49	4,157.64	78.99	6,082.51	28.59	2,201.66	168.60	12,982.30
748	3449.065	Tee SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	24.0	1.2	107.90	28.7	14.03	336.66	2,589.68	26.19	628.55	30.63	735.15	178.75	4,290.04
749	3449.066	Reducing Tee SW Class 3000 NPS 1-1/2 x1-1/2 x 1/2, Piping Specification SB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	63.08	63.08	39.75	39.75	232.86	232.86
750	3449.067	Reducing Tee SW Class 3000 NPS 1-1/2 x1-1/2 x 3/4, Piping Specification SB11	ea	11.0	1.2	108.01	13.1	14.04	154.45	1,188.10	59.52	654.67	37.37	411.02	218.93	2,408.24
751	3449.068	Reducing Tee SW Class 3000 NPS 1-1/2 x1-1/2 x 1, Piping Specification SB11	ea	14.0	1.2	107.24	16.6	13.94	195.18	1,501.40	63.08	883.07	37.90	530.64	222.16	3,110.28
752	3449.069	Concentric Reducer SW Class 3000 NPS 1-1/2 x 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
753	3449.070	Concentric Reducer SW Class 3000 NPS 1-1/2 x 1-1/4, Piping Specification SB11	ea	5.0	0.6	52.68	2.9	6.85	34.24	263.40	10.25	51.25	14.44	72.22	84.22	421.11
754	3449.071	Eccentric Reducer SW Class 3000 NPS 1-1/2 x 1-1/4, Piping Specification SB13	ea	1.0	0.7	66.54	0.7	8.65	8.65	66.54	10.39	10.39	17.72	17.72	103.30	103.30
755	3449.072	Concentric Reducer SW Class 3000 NPS 2 x 1-1/2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
756	3449.073	Olet SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	9.0	0.4	36.66	3.7	4.77	42.89	329.95	31.51	283.57	14.96	134.64	87.89	791.05
757	3449.074	Weld NPS 1-1/2 Piping Specification SB11	ea	543.0	0.6	51.38	308.6	6.68	3,626.65	27,897.32	244.71	132,879.21	61.19	33,225.39	363.96	197,628.57
758	3449.075	Victaulic coupling NPS 1-1/2, Style 77	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	34.54	0.00	18.69	0.00	109.63	0.00
759	3449.076	Victaulic coupling NPS 1-1/2, Style 77DX	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	34.54	0.00	18.69	0.00	109.63	0.00
760	3449.077	Victaulic coupling NPS 1-1/2, Style 489	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	192.51	0.00	50.50	0.00	299.40	0.00
761	3449.078	Victaulic concentric reducer NPS 1-1/2 x 1-1/4, Style 50	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	54.32	0.00	22.66	0.00	133.37	0.00
762	3449.079	Victaulic Tee NPS 1-1/2, Style 42OSS	ea	0.0	0.9	83.18	0.0	10.81	0.00	0.00	260.14	0.00	71.92	0.00	426.05	0.00
763	3449.080	Ball Valve NPS 1-1/2, Valve Specification VBA11	ea	29.0	3.2	287.31	92.2	37.35	1,083.15	8,331.90	236.58	6,860.83	115.15	3,339.38	676.39	19,615.26
764	3449.081	Pipe insulation NPS 1-1/2	Linear meter	172.8	3.3	302.21	577.7	39.29	6,789.77	52,228.98	202.04	34,917.34	94.22	16,283.10	637.76	110,219.19
765	3449.082	Pipe identification NPS 1-1/2	Linear meter	58.4	0.6	50.54	32.7	6.57	383.88	2,952.91	12.06	704.80	14.31	835.87	83.49	4,877.46
766	3449.083	Pipe NPS 2 Sch.10S, Piping Specification SB11	m	480.0	7.0	631.92	3,355.1	82.15	39,431.80	303,321.54	35.47	17,026.46	155.65	74,712.89	905.19	434,492.69
767	3449.084	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	45.0	0.6	53.88	26.8	7.00	315.21	2,424.71	55.11	2,479.98	23.76	1,069.18	139.76	6,289.03
768	3449.085	Elbow 45 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	5.0	0.3	26.34	1.5	3.42	17.12	131.71	34.72	173.62	13.18	65.91	77.67	388.36
769	3449.086	Elbow 90 degrees BW Sch.10S NPS 2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.35	0.00	17.51	0.00	100.85	0.00
770	3449.087	Elbow 45 degrees BW Sch.10S NPS 2, Piping Specification SB11	ea	1.0	0.4	33.27	0.4	4.33	4.33	33.27	3.61	3.61	8.54	8.54	49.75	49.75
771	3449.088	Olet SW Class 3000 NPS 2, Piping Specification SB11	ea	2.0	0.5	41.59	0.9	5.41	10.81	83.18	23.81	47.63	14.57	29.14	85.38	170.76
772	3449.089	Union SW Class 3000 NPS 2, Piping Specification SB11	ea	28.0	0.6	53.62	16.6	6.97	195.18	1,501.40	17.36	486.20	16.10	450.73	94.05	2,633.51
773	3449.090	Eccentric Reducer SW Class 3000 NPS 2 x 3/4, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	8.00	0.00	17.25	0.00	100.44	0.00
774	3449.091	Reducing Tee SW Class 3000 NPS 2 x 2 x 3/4, Piping Specification SB11	ea	9.0	1.2	108.13	10.8	14.06	126.52	973.21	95.68	861.08	44.68	402.08	262.54	2,362.89
775	3449.092	Reducing Tee SW Class 3000 NPS 2 x 2 x 1-1/2, Piping Specification SB11	ea	4.0	1.2	107.09	4.7	13.92	55.69	428.37	95.68	382.71	44.43	177.73	261.12	1,044.50
776	3449.093	Cap SW Class 3000 NPS 2, Piping Specification SB11	ea	6.0	0.7	60.54	4.0	7.87	47.22	363.23	6.48	38.86	15.53	93.18	90.41	542.49
777	3449.094	Weld NPS 2 Piping Specification SB11	ea	414.0	2.4	219.13	1,003.5	28.49	11,793.51	90,719.32	103.52	42,858.52	71.92	29,776.37	423.06	175,147.72
778	3449.095	Victaulic elbow 90 degrees NPS 2, Style 41OSS	ea	3.0	7.2	648.81	21.5	84.35	253.04	1,946.43	61.90	185.70	164.94	494.82	960.00	2,879.99
779	3449.096	Victaulic elbow 45 degrees NPS 2, Style 41SS	ea	2.0	0.3	24.96	0.6	3.24	6.49	49.91	98.65	197.30	25.73	51.46	152.58	305.16
780	3449.097	Victaulic coupling NPS 2, Style 89	ea	39.0	0.6	53.71	23.2	6.98	272.32	2,094.77	56.76	2,213.82	24.05	938.00	141.51	5,518.91
781	3449.098	Victaulic coupling NPS 2, Style 77DX	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	34.54	0.00	18.69	0.00	109.63	0.00
782	3449.099	Victaulic coupling NPS 2, Style 77	ea	61.0	0.6	53.82	36.3	7.00	426.77	3,282.85	424.83	25,914.57	98.18	5,988.79	583.82	35,612.98
783	3449.100	Victaulic coupling NPS 2, Style 07	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	34.54	0.00	18.69	0.00	109.63	0.00
784	3449.101	Victaulic tee NPS 2, Style 42OSS	ea	3.0	1.2	109.98	3.7	14.30	42.89	329.95	262.32	786.97	78.66	235.98	465.26	1,395.79
785	3449.102	Victaulic concentric reducer NPS 2 x 3/4, Style 50	ea	7.0	0.7	65.95	5.1	8.57	60.01	461.65	327.59	2,293.14	81.45	570.16	483.57	3,384.96
786	3449.103	Pipe insulation NPS 2	Linear meter	479.1	3.6	324.90	1,722.0	42.24	20,237.74	155,674.92	211.94	101,549.72	100.23	48,025.33	679.31	325,487.71
787	3449.104	Pipe identification NPS 2	Linear meter	162.0	0.6	50.51	90.5	6.57	1,063.68	8,182.18	12.06	1,954.06	14.30	2,316.34	83.45	13,516.27
788	3449.105	Pipe NPS 2-1/2 Sch.10S , Piping Specification SB11	m	235.0	1.9	168.41	437.8	21.89	5,145.04	39,577.24	69.53	16,338.74	53.58	12,590.65	313.41	73,651.67
789	3449.106	Elbow 90 degrees BW Sch.10S NPS 2-1/2, Piping Specification SB11	ea	74.0	0.5	47.72	39.1	6.20	458.03	3,531.00	9.60	710.67	13.15	972.92	76.67	5,673.62
790	3449.107	Elbow 45 degrees BW Sch.10S NPS 2-1/2, Piping Specification SB11	ea	5.0	0.3	23.01	1.3	2.99	14.96	115.07	5.78	28.89	6.57	32.86	38.36	191.78
791	3449.108	Tee BW Sch.10S NPS 2-1/2, Piping Specification SB11	ea	16.0	1.1	95.92	17.0	12.47	199.51	1,534.67	30.00	480.06	28.58	457.33	166.97	2,671.56
792	3449.109	Reducing Tee BW Sch.10S NPS 2-1/2 x 2-1/2 x 2, Piping Specification SB11	ea	0.0	1.6	148.34	0.0	19.28	0.00	0.00	21.57	0.00	39.20	0.00	228.40	0.00
793	3449.110	Union SW Class 3000 NPS 2-1/2, Piping Specification SB11	ea	16.0	0.5	47.40	8.4	6.16	98.58	758.33	134.73	2,155.60	38.26	612.21	226.55	3,624.72
794	3449.111	Concentric Reducer BW Sch.10S NPS 2-1/2 x 1-1/2, Piping Specification SB11	ea	1.0	0.7	66.54	0.7	8.65	8.65	66.54	40.63	40.63	23.83	23.83	139.65	139.65
795	3449.112	Concentric Reducer BW Sch.10S NPS 4 x 2-1/2, Piping Specification SB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	17.79	17.79	15.32	15.32	89.50	89.50
796	3449.113	Flange Welding Neck 150RF Sch.10S NPS 2-1/2 c/w hardware, Piping Specification SB11	ea	40.0	9.0	810.45	358.6	105.36	4,214.36	32,418.17	47.11	1,884.27	199.95	7,998.09	1,162.87	46,514.89
797	3449.114	Flange Slip-On 150RF NPS 2-1/2 c/w hardware, Piping Specification SB11	ea	14.0	22.7	2,049.21	317.3	266.40	3,729.56	28,688.92	88.20	1,234.76	499.35	6,990.91	2,903.15	40,644.16
798	3449.115	Olet BW Sch.10S NPS 2-1/2, Piping Specification SB11	ea	11.0	1.0	91.50	11.1	11.89	130.84	1,006.48	23.53	258.81	26.24	288.64	153.16	1,684.77
799	3449.116	Weld NPS 2-1/2 Piping Specification SB11	ea	492.0	2.8	250.58	1,363.7	32.58	16,027.16	123,285.86	138.03	67,911.86	86.29	42,457.05	507.48	249,681.93
800	3449.117	Victaulic Elbow 90 degrees NPS 2-1/2, Style 41OSS	ea	31.0	0.5	47.90	16.4	6.23	193.02	1,484.76	168.30	5,217.37	45.14	1,399.33	267.56	8,294.48
801	3449.118	Victaulic Elbow 45 degrees NPS 2-1/2, Style 41SS	ea	14.0	0.4	37.78	5.8	4.90	68.67	528.20	150.62	2,108.63	39.19	548.66	232.44	3,254.15
802	3449.119	Victaulic coupling NPS 2-1/2, Style 77DX	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	34.54	0.00	22.60	0.00	132.33	0.00
803	3449.120	Victaulic coupling NPS 2-1/2, Style 77	ea	118.0	0.5	47.82	62.4	6.22	733.51	5,642.61	445.20	52,533.75	100.87	11,902.64	600.10	70,812.11
804	3449.121	Victaulic coupling NPS 2-1/2, Style 07	ea	6.0	0.5	46.68	3.1	6.07	36.41	280.05	56.51	339.09	22.34	134.07	131.60	789.61
805	3449.122	Victaulic concentric reducer NPS 2-1/2 x 2, Style 52	ea	8.0	0.5	45.40	4.0	5.90	47.22	363.23	112.39	899.11	33.30	266.37	196.99	1,575.93
806	3449.123	Victaulic concentric reducer NPS 2-1/2 x 2, Style 50	ea	38.0	0.5	46.00	19.3	5.98	227.26	1,748.18	132.37	5,030.22	37.46	1,423.57	221.82	8,429.23
807	3449.124	Ball Valve NPS 2-1/2, Valve Specification VBA01	ea	44.0	4.4	401.19	195.3	52.15	2,294.79	17,652.26	840.24	36,970.70	263.45	11,591.70	1,557.03	68,509.46
808	3449.125	Pipe insulation NPS 2-1/2	Linear meter	235.0	4.1	369.54	960.6	48.04	11,289.61	86,843.12	234.16	55,027.71	112.61	26,464.44	764.36	179,624.88
809	3449.126	Pipe identification NPS 2-1/2	Linear meter	79.4	0.6	50.47	44.4	6.56	521.23	4,009.30	12.06	958.38	14.29	1,135.19	83.38	6,624.08
810	3449.127	Pipe NPS 3 Sch.STD, Piping Specification CB11	m	48.0	2.6	239.20	127.0	31.10	1,492.62	11,481.67	20.85	1,000.77	60.41	2,899.84	351.56	16,874.89
811	3449.128	Elbow 90 degrees BW Sch.STD NPS 3, Piping Specification CB11	ea	6.0	1.3	121.07	8.0	15.74	94.44	726.44	6.13	36.78	29.69	178.12	172.63	1,035.78
812	3449.129	Elbow 45 degrees BW Sch.STD NPS3, Piping Specification CB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	16.31	0.00	18.92	0.00	110.42	0.00
813	3449.130	Flange Welding Neck 150RF Sch.STD NPS 3 c/w hardware, Piping Specification CB11	ea	2.0	69.9	6,318.25	139.8	821.37	1,642.74	12,636.49	76.59	153.18	1,500.30	3,000.60	8,716.51	17,433.01

					LABOUR COMPONENT						NON LABOUR COMPONENT					
								0.13								
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
814	3449.131	Weld NPS 3 Piping Specification CB11	ea	33.0	5.1	457.45	167.0	59.47	1,962.46	15,095.87	85.13	2,809.26	123.42	4,072.98	725.47	23,940.58
815	3449.132	Victaulic coupling NPS 3, Style 77	ea	2.0	1.4	124.08	2.7	16.13	32.26	248.15	48.12	96.25	38.85	77.70	227.18	454.35
816	3449.133	Victaulic coupling NPS 3, Style 07	ea	6.0	1.3	121.07	8.0	15.74	94.44	726.44	59.69	358.14	40.47	242.83	236.97	1,421.84
817	3449.134	Victaulic expansion joint IT NPS 3, Style 155	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	4,262.15	4,262.15	885.12	885.12	5,277.30	5,277.30
818	3449.135	Victaulic Elbow 90 degrees NPS 3, Style 100	ea	2.0	1.4	124.08	2.7	16.13	32.26	248.15	66.16	132.33	42.49	84.97	248.85	497.71
819	3449.136	Victaulic Elbow 90 degrees NPS 3, Style 100	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	78.05	0.00	46.67	0.00	273.55	0.00
820	3449.137	Ball Valve NPS 3, Valve Specification VBA01	ea	1.0	5.1	461.65	5.1	60.01	461.65	461.65	1,158.99	1,158.99	341.83	341.83	2,022.48	2,022.48
821	3449.138	Pipe insulation NPS 3	Linear meter	47.5	5.2	471.31	247.9	61.27	2,913.32	22,410.29	286.90	13,641.95	141.26	6,716.86	960.74	45,682.32
822	3449.139	Pipe identification NPS 3	Linear meter	16.1	0.6	50.28	8.9	6.54	105.07	808.24	12.06	193.92	14.25	229.00	83.13	1,336.23
823	3449.140	Pipe painting NPS 3	Linear meter	96.0	0.0	0.00	0.0	0.00	0.00	0.00	47.07	4,516.96	9.48	909.38	56.55	5,426.34
824	3449.141	Pipe NPS 4 Sch.STD, Piping Specification CB11	m	434.0	3.0	274.26	1,316.6	35.65	15,473.87	119,029.78	28.85	12,520.96	70.26	30,494.54	409.03	177,519.14
825	3449.142	Elbow 90 degrees Sch.STD NPS 4, Piping Specification CB11	ea	7.0	1.8	160.22	12.4	20.83	145.80	1,121.55	10.67	74.66	39.80	278.61	231.52	1,620.62
826	3449.143	Flange Welding Neck 150RF Sch.STD NPS 4 c/w hardware, Piping Specification CB11	ea	9.0	57.1	5,161.81	513.9	671.03	6,039.31	46,456.26	74.20	667.79	1,228.04	11,052.35	7,135.08	64,215.71
827	3449.144	TeeBW Sch. STD NPS 4, Piping Specification CB11	ea	2.0	3.6	321.63	7.1	41.81	83.62	643.26	18.39	36.78	79.29	158.58	461.12	922.25
828	3449.145	Reducing Tee BW Sch.STD NPS 4 x 4 x 2-1/2, Piping Specification CB11	ea	1.0	3.5	313.32	3.5	40.73	40.73	313.32	19.98	19.98	77.66	77.66	451.70	451.70
829	3449.146	Reducing lateral BW Sch.STD NPS 4 x 2, Piping Specification CB11	ea	0.0	4.0	363.23	0.0	47.22	0.00	0.00	16.31	0.00	88.65	0.00	515.41	0.00
830	3449.147	Concentric reducer BW Sch.STD NPS 4 x 3, Piping Specification CB11	ea	0.0	1.3	115.07	0.0	14.96	0.00	0.00	8.95	0.00	28.83	0.00	167.82	0.00
831	3449.148	Eccentric reducer BW Sch.STD NPS 4 x 2, Piping Specification CB11	ea	1.0	1.1	98.44	1.1	12.80	12.80	98.44	8.95	8.95	24.92	24.92	145.11	145.11
832	3449.149	Eccentric reducer BW Sch.STD NPS 6 x 4, Piping Specification CB11	ea	5.0	1.6	145.29	8.0	18.89	94.44	726.44	15.20	76.02	37.21	186.03	216.58	1,082.92
833	3449.150	Cap BW Sch.STD NPS 4, Piping Specification CB11	ea	6.0	1.8	159.43	10.6	20.73	124.36	956.58	4.54	27.22	38.38	230.29	223.07	1,338.45
834	3449.151	Olet BW Sch.STD NPS 4, Piping Specification CB11	ea	1.0	1.8	164.98	1.8	21.45	21.45	164.98	34.33	34.33	45.69	45.69	266.45	266.45
835	3449.152	Weld NPS 4 Piping Specification CB11	ea	265.0	6.7	608.60	1,783.9	79.12	20,966.21	161,278.50	74.22	19,667.40	156.91	41,580.03	918.84	243,492.13
836	3449.153	Victaulic coupling NPS 4, Style 07	ea	8.0	1.8	158.74	14.1	20.64	165.09	1,269.88	78.77	630.16	53.16	425.31	311.30	2,490.43
837	3449.154	Victaulic coupling NPS 4, Style 77	ea	67.0	1.8	159.55	118.3	20.74	1,389.71	10,690.07	81.07	5,431.90	53.82	3,605.90	315.19	21,117.58
838	3449.155	Victaulic coupling NPS 4, Style 177	ea	2.0	1.7	156.66	3.5	20.37	40.73	313.32	81.07	162.14	53.14	106.29	311.24	622.48
839	3449.156	Victaulic transition coupling NPS 4, Style 997	ea	0.0	2.0	181.61	0.0	23.61	0.00	0.00	260.14	0.00	95.06	0.00	560.42	0.00
840	3449.157	Victaulic reducing tee NPS 4 x 4 x 2, Style 25	ea	1.0	3.5	313.32	3.5	40.73	40.73	313.32	95.98	95.98	92.95	92.95	542.98	542.98
841	3449.158	Victaulic reducing tee NPS 4 x 4 x 2-1/2, Style 25	ea	1.0	3.5	313.32	3.5	40.73	40.73	313.32	119.38	119.38	97.67	97.67	571.11	571.11
842	3449.159	Victaulic reducing tee NPS 4 x 4 x 3, Style 25	ea	1.0	3.5	313.32	3.5	40.73	40.73	313.32	125.27	125.27	98.85	98.85	578.17	578.17
843	3449.160	Victaulic eccentric reducer NPS 4 x 2, Style 51	ea	1.0	1.1	98.44	1.1	12.80	12.80	98.44	84.69	84.69	40.18	40.18	236.11	236.11
844	3449.161	Victaulic elbow 90 degrees NPS 4, Style 100	ea	2.0	1.7	156.66	3.5	20.37	40.73	313.32	102.25	204.49	57.40	114.81	336.68	673.35
845	3449.162	Butterfly valve NPS 4, Valve Specification VBU01	ea	3.0	6.3	566.55	18.8	73.65	220.95	1,699.65	410.66	1,231.99	215.82	647.47	1,266.69	3,800.07
846	3449.163	Pipe insulation NPS 4	Linear meter	434.0	6.2	564.16	2,708.5	73.34	31,832.82	244,867.88	348.57	151,292.75	170.13	73,842.08	1,156.21	501,835.53
847	3449.164	Pipe identification NPS 4	Linear meter	146.7	0.6	50.48	81.9	6.56	962.04	7,407.22	12.06	1,770.09	14.25	2,097.16	83.40	12,237.41
848	3449.165	Pipe painting NPS 4	Linear meter	432.6	0.0	0.00	0.0	0.00	0.00	0.00	51.52	22,292.93	10.38	4,488.14	61.91	26,781.07
849	3449.166	Pipe NPS 6 Sch.STD , Piping Specification CB11	m	364.0	3.9	356.92	1,437.1	46.40	16,889.35	129,918.09	50.92	18,536.52	94.13	34,264.55	548.38	199,608.51
850	3449.167	Elbow 90 degrees BW Sch.STD NPS 6, Piping Specification CB11	ea	12.0	2.6	239.26	31.8	31.10	373.24	2,871.11	25.75	308.96	61.41	736.96	357.52	4,290.28
851	3449.168	Elbow 45 degrees BW Sch.STD NPS 6, Piping Specification CB11	ea	2.0	1.4	124.08	2.7	16.13	32.26	248.15	19.37	38.74	33.06	66.12	192.64	385.27
852	3449.169	Tee BW Sch.STD NPS 6, Piping Specification CB11	ea	1.0	5.3	478.28	5.3	62.18	62.18	478.28	44.14	44.14	121.30	121.30	705.89	705.89
853	3449.170	Eccentric reducer BW Sch.STD NPS 6 x 4, Piping Specification CB11	ea	0.0	1.8	164.98	0.0	21.45	0.00	0.00	15.20	0.00	41.83	0.00	243.45	0.00
854	3449.171	Eccentric reducer BW Sch.STD NPS 8 x 6, Piping Specification CB11	ea	1.0	0.4	33.27	0.4	4.33	4.33	33.27	23.80	23.80	12.50	12.50	73.40	73.40
855	3449.172	Flange Welding Neck 150RF Sch.STD NPS 6 c/w hardware, Piping Specification CB11	ea	26.0	28.8	2,602.16	748.4	338.28	8,795.30	67,656.17	56.17	1,460.44	622.85	16,194.22	3,619.47	94,106.14
856	3449.173	Reducing lateral BW Sch.STD NPS 6 x 1-1/2, Piping Specification CB11	ea	0.0	6.0	544.84	0.0	70.83	0.00	0.00	24.53	0.00	132.98	0.00	773.18	0.00
857	3449.174	Olet BW Sch.STD NPS 6, Piping Specification CB11	ea	1.0	2.7	248.15	2.7	32.26	32.26	248.15	169.19	169.19	92.38	92.38	541.99	541.99
858	3449.175	Weld NPS 6 Piping Specification CB11	ea	289.0	9.0	812.37	2,596.9	105.61	30,520.79	234,775.38	91.57	26,462.77	208.14	60,153.73	1,217.69	351,912.62
859	3449.176	Victaulic elbow 90 degrees NPS 6, Style 100	ea	8.0	2.6	239.15	21.2	31.09	248.71	1,913.16	254.98	2,039.83	107.54	860.29	632.75	5,061.99
860	3449.177	Victaulic elbow 45 degrees NPS 6, Style 110	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	171.55	171.55	61.59	61.59	363.17	363.17
861	3449.178	Victaulic elbow 45 degrees NPS 6, Style 11	ea	0.0	1.5	131.71	0.0	17.12	0.00	0.00	171.55	0.00	65.50	0.00	385.88	0.00
862	3449.179	Victaulic coupling NPS 6, Style 07	ea	11.0	2.7	239.96	29.2	31.20	343.15	2,639.59	420.22	4,622.41	141.00	1,550.95	832.37	9,156.10
863	3449.180	Victaulic coupling NPS 6, Style 77	ea	83.0	2.6	239.32	219.7	31.11	2,582.25	19,863.48	140.19	11,635.79	84.47	7,010.79	495.09	41,092.32
864	3449.181	Victaulic reducing tee NPS 6 x 6 x 4, Style 25	ea	2.0	5.3	478.29	10.6	62.18	124.36	956.58	253.74	507.49	163.49	326.97	957.70	1,915.39
865	3449.182	Victaulic reducing tee NPS 6 x 6 x 2, Style 25	ea	3.0	5.3	478.29	15.9	62.18	186.53	1,434.86	254.63	763.90	163.67	491.00	958.77	2,876.30
866	3449.183	Victaulic eccentric reducer NPS 6 x 4, Style 51	ea	3.0	1.6	148.34	4.9	19.28	57.85	445.01	128.77	386.31	60.79	182.36	357.18	1,071.53
867	3449.184	Butterfly valve NPS 6, Valve Specification VBU01	ea	13.0	7.5	681.44	98.0	88.59	1,151.63	8,858.71	659.87	8,578.32	293.00	3,808.97	1,722.89	22,397.63
868	3449.185	Pipe insulation NPS 6	Linear meter	364.2	7.5	680.90	2,743.3	88.52	32,243.21	248,009.94	382.52	139,327.70	197.65	71,989.80	1,349.58	491,568.05
869	3449.186	Pipe identification NPS 6	Linear meter	123.1	0.6	50.51	68.8	6.57	808.49	6,219.12	12.06	1,485.43	14.30	1,760.65	83.44	10,273.69
870	3449.187	Pipe painting NPS 6	Linear meter	364.2	0.0	0.00	0.0	0.00	0.00	0.00	69.54	25,327.38	14.00	5,099.06	83.54	30,426.45
871	3449.188	Pipe NPS 8 Sch.STD, Piping Specification CB11	m	9.3	0.7	65.62	6.8	8.53	79.30	609.99	78.84	732.91	31.29	290.90	184.28	1,713.10
872	3449.189	Eccentric reducer BW Sch.STD NPS 8 x 4, Piping Specification CB11	ea	1.0	0.4	33.27	0.4	4.33	4.33	33.27	26.98	26.98	13.25	13.25	77.82	77.82
873	3449.190	Weld NPS 8 Piping Specification CB11	ea	13.0	14.6	1,319.80	189.8	171.57	2,230.46	17,157.85	65.22	847.80	321.75	4,182.75	1,878.34	24,418.36
874	3449.191	Victaulic reducing tee NPS 8 x 8 x 6, Style 25	ea	2.0	1.3	115.76	2.6	15.05	30.10	231.52	507.60	1,015.21	129.40	258.80	767.81	1,535.62
875	3449.192	Victaulic coupling NPS 8, Style 89	ea	6.0	0.6	57.77	3.8	7.51	45.06	346.59	214.19	1,285.12	56.70	340.18	336.16	2,016.95
876	3449.193	Pipe insulation NPS 8	Linear meter	9.4	7.9	714.97	74.7	92.95	878.23	6,755.64	580.35	5,483.65	243.51	2,300.89	1,631.78	15,418.41
877	3449.194	Pipe identification NPS 8	Linear meter	3.2	0.6	51.65	1.8	6.71	21.45	164.98	12.06	38.53	14.57	46.53	85.00	271.49
878	3449.195	Pipe painting NPS 8	Linear meter	9.3	0.0	0.00	0.0	0.00	0.00	0.00	130.44	1,212.80	26.26	244.17	156.71	1,457.00
		ABR (Brake Air)					0.0	50.00				50.00			50.00	
879	344A.01	Air tank 344A-TK-5000	ea	1.0	102.2	9,238.57	102.2	1,201.01	1,201.01	9,238.57	176.44	176.44	2,206.72	2,206.72	12,822.75	12,822.75
880	344A.02	Y-strainer 344A-STR-1000 / 2000 / 3000 / 4000 / 5000	ea	4.0	4.8	433.23	19.2	56.32	225.28	1,732.92	136.18	544.70	129.23	516.93	754.96	3,019.83
881	344A.03	Y-strainer 344A-STR-5001	ea	1.0	3.7	329.95	3.7	42.89	42.89	329.95	120.24	120.24	101.76	101.76	594.84	594.84
882	344A.04	Y-strainer 344A-STR-5002	ea	1.0	3.7	329.95	3.7	42.89	42.89	329.95	120.24	120.24	101.76	101.76	594.84	594.84
883	344A.05	Orifice Plate 344A-FO-5000 / 5001	ea	2.0	3.7	329.95	7.3	42.89	85.79	659.89	30.35	60.70	83.65	167.30	486.84	973.68
884	344A.06	Pressure Safety Valve 344A-PSV-5000 / 5001	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	30.35	60.70	161.20	322.39	937.24	1,874.47
885	344A.07	Pressure indicator 344A-PI-5000 / 5001 / 6000	ea	3.0	3.7	329.95	11.0	42.89	128.68	989.85	280.60	841.81	134.03	402.10	787.48	2,362.44
886	344A.08	Pressure transmitter 344A-PT-5000 / 5001	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	1,886.41	3,772.83	534.87	1,069.73	3,166.97	6,333.94
887	344A.09	Oil-Water Separator 344A-OWS-5000	ea	2.0	28.3	2,557.10	56.6	332.42	664.85	5,114.20	36.57	73.13	608.32	1,216.63	3,534.41	7,068.81
888	344A.10	Drain trap 344A-YV-5000	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	59.53	119.07	167.07	334.15	972.30	1,944.59
889	344A.11	Solenoid Valve 344A-YV-5001	ea	1.0	6.4	575.32	6.4	74.79	74.79	575.32	58.66	58.66	147.01	147.01	855.78	855.78
890	344A.12	Ball Valve NPS 1/8, Valve Specification VBA14	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	59.53	119.07	167.07	334.15	972.30	1,944.59
891	344A.13	Pipe NPS 1/2 Sch.10S , Piping Specification SB11	mm	1.0	1.6	148.34	1.6	19.28	19.28	148.34	177.36	177.36	70.58	70.58	415.57	415.57
892	344A.14	Ball Valve NPS 1/2, Valve Specification VBA11	ea	1.0	3.1	280.05	3.1	36.41	36.41	280.05	100.39	100.39	86.02	86.02	502.87	502.87
893	344A.15	Pipe NPS 3/4 Sch.10S, Piping Specification SB11	m	3.0	2.2	197.78	6.6	25.71	77.14	593.35	39.36	118.08	54.41	163.22	317.26	951.78
894	344A.16	Pipe NPS 3/4 Sch.40S, Piping Specification SB11	mm	0.0	0.6	49.93	0.0	6.49	0.00	0.00	4.23	0.00	12.57	0.00	73.20	0.00
895	344A.17	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	9.0	0.6	53.14	5.3	6.91	62.18	478.28	5.37	48.30	13.57	122.13	78.99	710.89
896	344A.18	Elbow 45 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	0.0	0.4	33.27	0.0	4.33	0.00	0.00	8.74	0.00	9.58	0.00	55.92	0.00
897	344A.19	Union SW Class 3000 NPS 3/4, Piping Specification SB11	ea	9.0	0.6	53.14	5.3	6.91	62.18	478.28	11.90	107.06	14.88	133.95	86.83	781.46

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Est.) E = A x D	COST OF LABOUR (Est.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
898	344A.20	Tee SW Class 3000 NPS 3/4, Piping Specification SB11	ea	6.0	1.2	107.21	7.1	13.94	83.62	643.26	7.11	42.64	26.62	159.75	154.88	929.28
899	344A.21	Concentric Reducer SW Class 3000 NPS 3/4 x 1/2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	21.57	0.00	19.98	0.00	116.75	0.00
900	344A.22	Eccentric Reducer SW Class 3000 NPS 3/4 x 1/2, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	9.64	0.00	17.58	0.00	102.41	0.00
901	344A.23	Weld NPS 3/4, Piping Specification SB11	ea	43.0	0.4	33.37	15.9	4.34	186.53	1,434.84	120.56	5,184.23	31.98	1,375.33	190.25	8,180.95
902	344A.24	Ball Valve NPS 3/4, Valve Specification VBA02	ea	0.0	3.7	329.95	0.0	42.89	0.00	0.00	310.28	0.00	140.01	0.00	823.13	0.00
903	344A.25	Ball Valve NPS 3/4, Valve Specification VBA11	ea	3.0	3.2	286.05	9.5	37.19	111.56	858.14	100.38	301.15	87.43	262.30	511.05	1,533.15
904	344A.26	Pipe identification NPS 3/4	Linear meter	1.0	0.2	16.41	0.2	2.13	2.16	16.64	4.02	4.07	4.66	4.73	27.23	27.60
905	344A.27	Pipe NPS 1 Sch.105, Piping Specification SB11	m	5.0	1.9	171.68	9.5	22.31	113.56	858.14	15.19	75.96	43.39	216.97	252.53	1,262.63
906	344A.28	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification SB11	ea	40.0	0.6	54.03	23.9	7.02	280.97	2,161.31	8.11	324.51	14.33	573.28	83.50	3,340.07
907	344A.29	Union SW Class 3000 NPS 1, Piping Specification SB11	ea	23.0	0.6	53.83	13.7	7.00	160.94	1,238.00	13.43	308.85	15.35	353.13	89.61	2,060.92
908	344A.30	Weld NPS 1, Piping Specification SB11	ea	148.0	0.8	75.35	123.4	9.80	1,449.72	11,151.71	107.94	15,975.04	39.17	5,797.79	232.26	34,374.27
909	344A.31	Ball Valve NPS 1, Valve Specification VBA11	ea	4.0	3.2	288.71	12.8	37.53	150.13	1,154.83	127.76	511.05	93.57	374.28	547.57	2,190.29
910	344A.32	Ball Valve NPS 1, Valve Specification VBA14	ea	4.0	3.2	288.71	12.8	37.53	150.13	1,154.83	91.26	365.04	86.22	344.89	503.72	2,014.88
911	344A.33	Check Valve NPS 1, Valve Specification VCH14	ea	0.0	3.7	329.95	0.0	42.89	0.00	0.00	912.59	0.00	261.26	0.00	1,546.69	0.00
912	344A.34	Pipe identification NPS 1	Linear meter	1.0	0.2	16.41	0.2	2.13	2.16	16.64	4.02	4.07	4.66	4.73	27.23	27.60
913	344A.35	Pipe NPS 2 Sch.105, Piping Specification SB11	m	182.1	3.2	291.06	586.1	37.84	6,888.71	52,990.08	23.85	4,342.59	73.21	13,327.71	425.96	77,549.10
914	344A.36	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	11.0	0.6	53.94	6.6	7.01	77.14	593.35	34.85	383.34	19.69	216.63	115.50	1,270.46
915	344A.37	Union SW/ FNPT Class 3000 NPS 2, Piping Specification SB11	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	25.26	101.03	17.71	70.83	103.67	414.68
916	344A.38	Tee SW Class 3000 NPS 2, Piping Specification SB11	ea	2.0	1.2	107.44	2.4	13.97	27.93	214.88	44.57	89.14	34.22	68.44	200.20	400.39
917	344A.39	Tee Reducing SW Class 3000 NPS 2 x 2 x 3/4, Piping Specification SB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	95.67	95.67	46.31	46.31	272.01	272.01
918	344A.40	Tee Reducing SW Class 3000 NPS 2 x 2 x 1, Piping Specification SB11	ea	5.0	1.2	108.97	6.0	14.17	70.85	544.84	95.68	478.39	44.87	224.35	263.68	1,318.41
919	344A.41	Cap SW Class 3000 NPS 2, Piping Specification SB11	ea	1.0	0.6	49.91	0.6	6.49	6.49	49.91	10.62	10.62	13.87	13.87	80.89	80.89
920	344A.42	Excentric Reducer SW Class 3000 NPS 2 x 1, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	9.64	0.00	17.58	0.00	102.41	0.00
921	344A.43	Slip-on Flange SW 150RF NPS 2 c/w hardware, Piping Specification SB11	ea	12.0	3.0	272.18	36.1	35.38	424.61	3,266.21	5.11	61.33	65.00	779.96	377.68	4,532.10
922	344A.44	Weld Neck Flange 150RF Sch.105 NPS 2 c/w hardware, Piping Specification SB11	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	31.05	0.00	21.90	0.00	128.14	0.00
923	344A.45	Victaulic coupling NPS 2, Style 77	ea	27.0	0.6	53.76	16.1	6.99	188.69	1,451.49	397.41	10,730.14	92.64	2,501.38	550.80	14,871.70
924	344A.46	Victaulic Expansion joint NPS 2, Style 155	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	2,508.49	10,033.97	517.65	2,070.58	3,086.84	12,347.37
925	344A.47	Weld NPS 2, Piping Specification SB11	ea	181.0	1.5	135.13	195.8	17.57	2,801.28	17,702.19	139.46	18,269.67	59.55	7,801.45	351.71	46,074.60
926	344A.48	Ball Valve NPS 2, Valve Specification VBA11	ea	7.0	3.4	308.76	23.9	40.14	280.97	2,161.31	132.98	930.84	99.34	695.35	581.21	4,068.47
927	344A.49	Pipe identification NPS 2	Linear meter	61.5	0.6	50.42	34.8	6.55	403.16	3,101.24	12.06	742.10	14.28	878.23	83.81	5,124.73
		WTS (Shaft Seal Water)					0.0	50.00	50.00	50.00		50.00		50.00	50.00	50.00
928	344B.01	Sand filter 344B-FR-6000 to 6003	ea	4.0	122.5	11,074.09	490.0	1,439.63	5,758.52	44,296.34	220,142.26	880,569.04	46,922.89	187,691.55	279,578.86	1,118,315.45
929	344B.02	Y-strainer 344B-STR-6000 / 6001	ea	2.0	4.7	429.07	9.5	55.78	111.56	858.14	0.00	0.00	100.84	201.68	585.69	1,171.38
930	344B.03	Lubrication water pump 344B-P-5000 / 5001	ea	2.0	91.3	8,257.05	182.7	1,073.42	2,146.83	16,514.09	5,920.52	11,841.04	3,132.49	6,264.97	18,383.47	36,766.94
931	344B.04	Sight flow indicator 344B-FG-6000	ea	1.0	9.4	851.21	9.4	110.66	110.66	851.21	245.14	245.14	249.39	249.39	1,456.40	1,456.40
932	344B.05	Air vent 344B-AV-5000 / 6000 TO 6004	ea	6.0	7.3	659.90	43.8	85.79	514.72	3,959.39	80.85	182.10	161.20	967.17	937.23	5,623.39
933	344B.06	Pressure indicator 344B-PI-6000 to 6006 / 5000 to 5006 / 5010 to 5013	ea	18.0	3.6	329.95	65.7	42.89	772.08	5,939.07	542.81	9,770.60	186.82	3,362.84	1,102.48	19,844.58
934	344B.07	Pressure transmitter 344B-PT-5000 / 5001	ea	2.0	7.3	659.90	14.6	85.79	171.57	1,319.80	7,963.56	15,927.12	1,758.36	3,516.71	10,467.61	20,935.21
935	344B.08	Differential pressure switch 344B-PDSH-6000 to 6004	ea	5.0	7.3	659.90	36.5	85.79	428.93	3,299.48	1,263.06	6,315.28	409.37	2,046.86	2,418.11	12,090.56
936	344B.09	Differential pressure indicator 344B-PDI-6000	ea	1.0	14.6	1,319.80	14.6	171.57	171.57	1,319.80	2,967.37	2,967.37	907.59	907.59	5,366.33	5,366.33
937	344B.10	Flow switch 344B-FSL-5000 to 5005	ea	6.0	3.7	329.95	21.9	42.89	257.36	1,979.70	623.86	3,740.14	203.04	1,218.24	1,199.24	7,195.45
938	344B.11	Variable frequency drive 344B-VFD-5000 / 5001	ea	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
939	344B.12	Control Panel 344B-CP-5000 to 5002	ea	3.0	18.6	1,678.86	55.7	218.25	654.75	5,036.57	24,784.70	74,354.09	5,384.35	16,153.06	32,066.16	96,198.48
940	344B.13	Tube NPS 1/2 thickness 1.65, Piping Specification SB13	m	0.0	253.3	22,898.19	0.0	2,976.76	0.00	0.00	889.58	0.00	5,560.51	0.00	32,325.04	0.00
941	344B.14	Elbow 90 degrees Swagelok NPS 1/2, Piping Specification SB13	ea	0.0	0.7	66.54	0.0	8.65	0.00	0.00	39.49	0.00	23.58	0.00	138.26	0.00
942	344B.15	Needle valve NPS 1/2, Valve Specification VNE02	ea	6.0	3.2	288.82	19.2	37.55	225.28	1,732.92	279.59	1,677.54	124.17	744.99	730.12	4,380.74
943	344B.16	Pipe insulation NPS 1/2	Linear meter	120.4	3.3	300.90	400.7	39.12	4,709.62	36,227.85	165.87	19,970.09	86.70	10,438.91	592.60	71,346.46
944	344B.17	Pipe identification NPS 1/2	Linear meter	40.7	0.6	50.68	22.8	6.59	268.17	2,062.87	12.06	491.00	14.34	583.66	83.68	3,405.70
945	344B.18	Pipe NPS 3/4 Sch.105, Piping Specification SB11	m	0.0	0.6	49.91	0.0	6.49	0.00	0.00	3.74	0.00	12.48	0.00	72.61	0.00
946	344B.19	Elbow 90 degrees SW Class 3000 NPS 3/4, Piping Specification SB11	ea	60.0	0.6	53.88	35.8	7.00	420.28	3,232.94	6.20	371.89	13.91	834.67	81.00	4,859.78
947	344B.20	Weld NPS 3/4 Piping Specification SB11	ea	14.0	1.4	123.78	19.2	16.09	225.28	1,732.92	145.86	2,041.97	58.45	818.36	344.18	4,818.53
948	344B.21	Ball Valve NPS 3/4, Valve Specification VBA11	ea	6.0	3.2	288.82	19.2	37.55	225.28	1,732.92	88.22	529.30	85.64	513.81	500.22	3,001.32
949	344B.22	Pipe insulation NPS 3/4	Linear meter	1.0	3.3	302.30	3.3	39.30	39.29	302.22	171.37	171.33	88.07	88.05	601.04	600.89
950	344B.23	Pipe identification NPS 3/4	Linear meter	1.0	0.2	16.41	0.2	2.13	2.16	16.64	4.02	4.07	4.66	4.73	27.23	27.60
951	344B.24	Pipe NPS 1 Sch.105, Piping Specification SB11	m	11.0	0.6	55.45	6.8	7.21	79.30	609.99	0.43	4.77	13.12	144.32	76.22	838.38
952	344B.25	Weld NPS 1 Piping Specification SB11	ea	22.0	0.3	26.28	6.4	3.42	75.35	578.11	256.46	5,642.13	57.81	1,271.77	343.96	7,567.16
953	344B.26	Ball Valve NPS 1, Valve Specification VBA11	ea	2.0	3.2	289.06	6.4	37.58	75.15	578.11	127.76	255.53	93.66	187.31	548.05	1,096.10
954	344B.27	Pipe insulation NPS 1	Linear meter	11.6	3.5	312.76	40.1	40.66	470.93	3,622.53	192.06	2,224.50	94.07	1,089.61	639.55	7,407.55
955	344B.28	Pipe identification NPS 1	Linear meter	3.9	0.6	50.63	2.2	6.58	25.77	198.25	12.06	47.23	14.33	56.09	83.60	327.34
956	344B.29	Pipe NPS 1 Sch.40, Piping Specification PA02	m	11.0	3.3	293.90	35.8	38.21	420.28	3,232.94	5.07	55.80	70.09	771.03	407.28	4,480.05
957	344B.30	Elbow 90 degrees SW Class 3000 NPS 1, Piping Specification PA02	ea	6.0	0.3	30.27	2.0	3.93	23.61	181.61	2.86	17.14	7.69	46.13	44.75	268.49
958	344B.31	Elbow 45 degrees SW Class 3000 NPS 1, Piping Specification PA02	ea	0.0	0.2	16.64	0.0	2.16	0.00	0.00	2.53	0.00	4.42	0.00	25.76	0.00
959	344B.32	Pipe identification NPS 1	Linear meter	0.0	0.0	0.00	0.0	0.00	0.00	0.00	11.67	0.00	2.35	0.00	14.02	0.00
960	344B.33	Flange Welding Neck 150RF Sch.105 NPS 1-1/4 c/w hardware, Piping Specification SB11	m	8.0	10.4	940.29	83.2	122.24	977.90	7,522.28	17.08	136.65	224.47	1,795.36	1,304.02	10,432.19
961	344B.34	Eccentric reducer SW Class 3000 NPS 2 x 1-1/4, Piping Specification SB11	m	4.0	0.7	62.04	2.7	8.06	32.26	248.15	7.99	31.95	16.19	64.75	94.28	377.11
962	344B.35	Weld NPS 1-1/4 Piping Specification SB11	ea	4.0	0.0	0.00	0.0	0.00	0.00	0.00	257.01	1,028.03	51.74	206.97	308.75	1,234.99
963	344B.36	Pipe NPS 1-1/2 Sch.105, Piping Specification SB11	m	15.0	8.3	298.06	49.5	38.75	581.22	4,470.95	16.50	247.50	73.37	1,100.58	426.68	6,400.25
964	344B.37	Elbow 90 degrees SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	3.0	0.6	54.99	1.8	7.15	21.45	164.98	19.98	59.93	16.95	50.84	99.07	297.20
965	344B.38	Reducing tee SW Class 3000 NPS 1-1/2 x 1-1/2 x 1/2, Piping Specification SB11	ea	9.0	3.2	108.33	10.8	14.06	126.52	973.23	63.08	567.68	38.11	343.01	223.38	2,010.41
966	344B.39	Flange Slip-On 150RF NPS 1-1/2 c/w hardware, Piping Specification SB11	m	20.0	3.2	287.04	63.5	37.32	746.31	5,740.84	1.97	39.30	67.85	1,357.10	394.18	7,883.55
967	344B.40	Cap SW Class 3000 NPS 1-1/2, Piping Specification SB11	ea	2.0	0.6	57.54	1.3	7.48	14.96	115.07	8.20	16.40	15.18	30.35	88.89	176.78
968	344B.41	Weld NPS 1-1/2 Piping Specification SB11	ea	34.0	0.5	40.78	15.3	5.30	180.23	1,386.35	250.14	8,504.63	59.81	2,033.53	356.02	12,104.74
969	344B.42	Victaulic coupling NPS 1-1/2, Style 07	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	34.54	0.00	18.69	0.00	109.63	0.00
970	344B.43	Victaulic elbow 90 degrees NPS 1-1/2, Style 41055	ea	6.0	0.6	54.99	3.7	7.15	42.89	329.95	103.11	618.65	33.68	202.10	198.93	1,193.60
971	344B.44	Victaulic tee degrees NPS 1-1/2, Style 42055	ea	0.0	0.9	83.18	0.0	10.81	0.00	0.00	260.14	0.00	71.92	0.00	426.05	0.00
972	344B.45	Ball Valve NPS 1-1/2, Valve Specification VBA11	ea	0.0	3.7	329.95	0.0	42.89	0.00	0.00	209.89	0.00	139.79	0.00	702.52	0.00
973	344B.46	Pipe insulation NPS 1-1/2	Linear meter	14.6	3.4	309.57	50.1	40.24	588.79	4,529.18	206.93	3,027.52	96.51	1,411.99	653.26	9,557.48
974	344B.47	Pipe identification NPS 1-1/2	Linear meter	4.9	0.6	50.17	2.7	6.52	32.26	248.15	12.06	59.66	14.22	70.33	82.98	410.40
975	344B.48	Pipe NPS 2 Sch.105, Piping Specification SB11	m	322.7	3.2	287.21	1,025.2	37.34	12,048.73	92,682.39	19.41	6,263.84	71.41	23,042.70	415.37	134,037.14
976	344B.49	Elbow 90 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	25.0	0.6	54.12	15.0	7.04	175.90	1,353.07	20.22	505.44	16.79	419.74	98.17	2,454.15
977	344B.50	Elbow 45 degrees SW Class 3000 NPS 2, Piping Specification SB11	ea	6.0	0.3	27.50	1.8	3.57	21.45	164.98	26.97	161.83	11.89	71.35	69.93	419.60
978	344B.51	Tee SW Class 3000 NPS 2, Piping Specification SB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	44.57	44.57	36.01	36.01	210.61	210.61
979	344B.52	Reducing tee SW Class 3000 NPS 2 x 2 x 1-1/2, Piping Specification SB11	ea	7.0	1.1	99.02	7.7	12.87	90.11	693.16	700.69	4,904.80	164.34	1,150.36	976.92	6,838.44
980	344B.53	Reducing tee SW Class 3000 NPS 2 x 2 x 1, Piping Specification SB11	ea	1.0	1.3	115.07	1.3	14.96	14.96	115.07	95.67	95.67	46.31	46.31	272.01	272.01

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
981	344B.54	Reducing tee SW Class 3000 NPS 2 x 2 x 3/4, Piping Specification SB11	ea	2.0	1.2	107.44	2.4	13.97	27.93	214.88	95.67	191.35	44.51	89.02	261.59	523.19
982	344B.55	Cap SW Class 3000 NPS 2, Piping Specification SB11	ea	6.0	0.6	54.99	3.7	7.15	42.89	329.95	15.15	90.91	15.97	95.85	93.27	559.61
983	344B.56	Weld NPS 2 Piping Specification SB11	ea	166.0	2.2	199.46	366.2	25.93	4,304.29	33,109.96	150.96	25,059.49	76.96	12,776.03	453.31	75,249.78
984	344B.57	Victaulic coupling NPS 2, Style 07	ea	4.0	0.6	53.72	2.4	6.98	27.93	214.88	41.95	167.80	21.07	84.28	123.73	494.90
985	344B.58	Victaulic coupling NPS 2, Style 77	ea	6.0	0.6	54.99	3.7	7.15	42.89	329.95	54.71	328.24	23.94	143.63	140.79	844.72
986	344B.59	Victaulic coupling NPS 2, Style 89	ea	18.0	0.6	54.07	10.8	7.03	126.52	973.23	56.76	1,021.76	24.13	434.42	141.99	2,555.91
987	344B.60	Victaulic tee degrees NPS 2, Style 4205S	ea	2.0	1.2	107.44	2.4	13.97	27.93	214.88	262.32	524.65	78.07	156.13	461.80	923.59
988	344B.61	Victaulic concentric reducer NPS 2 x 1-1/2, Style 50	ea	2.0	0.6	57.54	1.3	7.48	14.96	115.07	100.72	201.45	33.80	67.60	199.54	399.08
989	344B.62	Victaulic expansion joint JT NPS 2, Style 155	ea	0.0	0.6	49.91	0.0	6.49	0.00	0.00	2,497.36	0.00	514.50	0.00	3,068.26	0.00
990	344B.63	Ball Valve NPS2, Valve Specification VBA11	ea	5.0	4.8	432.26	23.9	56.19	280.97	2,161.31	310.28	1,551.40	164.05	820.27	962.79	4,813.96
991	344B.64	Check Valve NPS2, Valve Specification VCH12	ea	2.0	4.7	429.07	9.5	55.78	111.56	858.14	1,249.71	2,499.43	352.44	704.87	2,087.00	4,174.00
992	344B.65	Pipe insulation NPS 2	Linear meter	202.4	3.6	324.38	726.2	42.17	8,534.52	65,650.14	211.60	42,824.73	100.07	20,252.90	678.21	137,262.28
993	344B.66	Pipe identification NPS 2	Linear meter	68.4	0.6	50.39	38.1	6.55	448.22	3,447.83	12.06	825.38	14.27	976.46	83.28	5,697.89
994	344B.67	Pipe NPS 2-1/2 Sch.10S, Piping Specification SB11	m	9.0	2.5	225.51	22.5	29.32	263.85	2,029.60	3,192.02	28,728.18	695.63	6,260.71	4,142.48	37,282.34
995	344B.68	Elbow 90 degrees BW Sch.10S NPS 2-1/2, Piping Specification SB11	ea	4.0	0.5	49.56	2.2	6.44	25.77	198.25	9.60	38.42	13.58	54.33	79.19	316.77
996	344B.69	Tee BW Sch.10S NPS 2-1/2, Piping Specification SB11	ea	1.0	1.1	98.44	1.3	12.80	12.80	98.44	17.83	17.83	26.72	26.72	155.78	155.78
997	344B.70	Reducing tee BW Sch.10S NPS 2-1/2 x 2-1/2 x 1, Piping Specification SB11	ea	3.0	1.0	93.35	3.1	12.14	36.41	280.05	25.10	75.29	26.99	80.98	157.58	472.73
998	344B.71	Eccentric reducer BW Sch.10S NPS 2-1/2 x 2, Piping Specification SB11	m	0.0	0.6	49.91	0.0	6.49	0.00	0.00	8.00	0.00	13.35	0.00	77.75	0.00
999	344B.72	Flange Welding Neck 150RF Sch.10S NPS 2-1/2 c/w hardware, Piping Specification SB11	m	3.0	7.8	703.80	23.4	91.49	274.48	2,111.40	42.25	126.76	173.91	521.73	1,011.46	3,034.37
1000	344B.73	Weld NPS 2-1/2 Piping Specification SB11	ea	14.0	0.5	41.29	6.4	5.37	75.15	578.11	277.53	3,885.39	65.50	916.98	389.69	5,455.64
1001	344B.74	Butterfly valve NPS 2-1/2, Valve Specification VBU01	ea	1.0	4.2	379.86	4.2	49.38	49.38	379.86	173.40	173.40	124.18	124.18	726.82	726.82
1002	344B.75	Pipe insulation NPS 2-1/2	Linear meter	7.0	4.1	369.01	28.6	47.97	336.80	2,586.91	233.81	1,639.13	112.45	788.34	763.25	5,350.67
1003	344B.76	Pipe identification NPS 2-1/2	Linear meter	2.4	0.5	48.56	1.3	6.31	14.96	115.07	12.06	28.59	13.84	32.80	80.77	191.42
1004	344B.77	Flange Welding Neck 150RF Sch.10S NPS 4 c/w hardware, Piping Specification SB11	m	3.0	30.1	2,716.76	90.2	353.18	1,059.54	8,150.29	80.94	242.81	654.77	1,964.32	3,805.65	11,416.96
1005	344B.78	Elbow 90 degrees BW Sch.10S NPS 4, Piping Specification SB11	ea	2.0	0.9	82.49	1.8	10.72	21.45	164.98	23.23	46.46	24.06	48.14	140.51	281.02
1006	344B.79	Weld NPS 2 Piping Specification SB11	ea	33.0	3.5	318.94	116.4	41.46	1,368.26	10,525.09	5.65	186.45	74.97	2,474.11	441.03	14,553.91
1007	344B.80	Victaulic coupling NPS 4, Style 07	ea	1.0	0.9	83.18	0.9	10.81	10.81	83.18	79.39	79.39	35.53	35.53	208.92	208.92
1008	344B.81	Butterfly valve NPS 4, Valve Specification VBU01	ea	1.0	6.2	561.47	6.2	72.99	72.99	561.47	410.67	410.67	214.63	214.63	1,259.76	1,259.76
1009	344B.82	Pipe insulation NPS 4	Linear meter	1.8	6.8	617.06	12.5	80.22	146.70	1,128.49	381.23	697.20	186.08	340.30	1,264.59	2,312.70
1010	344B.83	Pipe identification NPS 4	Linear meter	0.6	0.6	53.82	0.4	7.00	4.33	33.27	12.07	7.46	15.07	9.32	87.94	54.37
		WLS (Piezometer and Water Level)						$0.00				$0.00		$0.00	$0.00	
1011	344C.01	Level tranmitter 344C-LT-6000 / 9000 / 9001	ea	3.0	21.1	1,904.37	63.2	247.57	742.70	5,713.11	5,463.62	16,390.86	1,547.52	4,642.56	9,163.08	27,489.24
1012	344C.02	Pressure transmitter 344C-PT-1000 / 2000/ 3000 / 4000	ea	4.0	7.3	659.90	29.2	85.79	343.15	2,639.59	1,843.97	7,375.88	526.33	2,105.30	3,115.98	12,463.92
1013	344C.03	Pressure indicator 344C-PI-1000 / 1001 / 2000 / 2001 / 3000 / 3001 / 4000 / 4001	ea	8.0	3.7	329.95	29.2	42.89	343.15	2,639.59	548.24	4,385.91	187.92	1,503.33	1,109.00	8,871.98
1014	344C.04	Instrumentation cabinet 344C-IC-1000 / 1001 / 2000 / 2001 / 3000 / 3001 / 4000 / 4001 (Detail PD14 and PD15)	ea	8.0	111.3	10,066.56	890.8	1,308.65	10,469.23	80,532.50	14,559.03	116,472.24	5,296.90	42,375.19	31,231.14	249,849.15
		Mechanical Shop Equipment					0.0	$0.00	$0.00	$0.00		$0.00		$0.00	$0.00	$0.00
1015	3440.001	Welding machine 3440-W-6000	ea	1.0	15.0	1,351.68	15.0	175.72	175.72	1,351.68	23,936.47	23,936.47	5,136.70	5,136.70	30,600.56	30,600.56
1016	3440.002	Welding fume extractor 3440-WFE-6000	ea	1.0	15.0	1,351.68	15.0	175.72	175.72	1,351.68	8,976.81	8,976.81	2,124.94	2,124.94	12,629.14	12,629.14
1017	3440.003	Victaulic pipe prep machine 3440-PPT-6000	ea	1.0	15.0	1,351.68	15.0	175.72	175.72	1,351.68	17,860.23	17,860.23	3,913.39	3,913.39	23,301.02	23,301.02
1018	3440.004	Milling Machine 3440-VM-6000	ea	1.0	48.6	4,393.31	48.6	571.13	571.13	4,393.31	23,229.97	23,229.97	5,709.29	5,709.29	33,903.70	33,903.70
1019	3440.005	Radial drilling machine 3440-RAD-6000	ea	1.0	67.3	6,083.25	67.3	790.82	790.82	6,083.25	30,350.72	30,350.72	7,540.03	7,540.03	44,764.82	44,764.82
1020	3440.006	Hydraulic press 3440-HYDP-6000	ea	1.0	41.1	3,716.78	41.1	483.18	483.18	3,716.78	16,284.33	16,284.33	4,151.96	4,151.96	24,636.25	24,636.25
1021	3440.007	Belt grinding machine 3440-BS-6000	ea	1.0	29.9	2,703.36	29.9	351.44	351.44	2,703.36	5,014.87	5,014.87	1,644.95	1,644.95	9,714.62	9,714.62
1022	3440.008	Iron worker 3440-IW-6000	ea	1.0	41.1	3,716.78	41.1	483.18	483.18	3,716.78	37,354.73	37,354.73	8,393.96	8,393.96	49,948.65	49,948.65
1023	3440.009	Engine lathe 3440-L-6000	ea	1.0	41.1	3,716.78	41.1	483.18	483.18	3,716.78	30,292.35	30,292.35	6,972.13	6,972.13	41,464.45	41,464.45
1024	3440.010	Band saw 3440-BAND5-6000	ea	1.0	37.4	3,378.51	37.4	439.21	439.21	3,378.51	7,470.95	7,470.95	2,298.10	2,298.10	13,586.76	13,586.76
1025	3440.011	Drilling machine 3440-DP-6000	ea	1.0	22.4	2,028.21	22.4	263.67	263.67	2,028.21	17,475.01	17,475.01	3,994.82	3,994.82	23,761.71	23,761.71
1026	3440.012	Bench grinder 3440-BGNR-6000	ea	1.0	15.0	1,351.68	15.0	175.72	175.72	1,351.68	2,171.24	2,171.24	754.79	754.79	4,453.43	4,453.43
1027	3440.013	Threading machnie 3440-PTHDR-6000	ea	1.0	15.0	1,351.68	15.0	175.72	175.72	1,351.68	23,813.64	23,813.64	5,111.97	5,111.97	30,453.01	30,453.01
1028	3440.014	Jib crane 3440-JIBC-6000 / 6001	ea	2.0	48.6	4,393.32	97.2	571.13	1,142.26	8,786.63	5,019.54	10,039.08	2,043.06	4,086.12	12,027.05	24,054.09
1029	3440.015	Floor handling crane 3440-CGM-6000	ea	1.0	67.3	6,083.25	67.3	790.82	790.82	6,083.25	20,428.37	20,428.37	5,542.40	5,542.40	32,844.85	32,844.85
1030	3440.016	Plasma cutter 3440-PLAC-6000	ea	1.0	11.2	1,013.42	11.2	131.74	131.74	1,013.42	3,475.37	3,475.37	937.85	937.85	5,558.38	5,558.38
1031	3440.017	Small cutting 3440-WT-6000	ea	1.0	11.2	1,013.42	11.2	131.74	131.74	1,013.42	1,094.86	1,094.86	458.60	458.60	2,698.62	2,698.62
1032	3440.018	Working table 3440-WT-6001 / 6002	ea	2.0	22.4	2,027.52	44.9	263.58	527.16	4,055.04	2,796.94	5,593.87	1,039.59	2,079.19	6,127.63	12,255.25
1033	3440.019	Work cart 3440-WT-6003	ea	1.0	7.5	676.53	7.5	87.95	87.95	676.53	5,241.34	5,241.34	1,214.22	1,214.22	7,220.03	7,220.03
		Instrumentation					0	$0.00				$0.00		$0.00	$0.00	
1034	3440.020	Detail AT1	ea	52.0	3.7	336.29	193.4	43.72	2,273.35	17,487.30	517.89	26,930.43	183.30	9,531.56	1,081.20	56,222.64
1035	3440.021	Detail AT2	ea	13.0	4.2	380.71	54.7	49.49	643.40	4,949.24	597.59	7,768.68	209.78	2,727.18	1,237.58	16,088.49
1036	3440.022	Detail AT3	ea	5.0	3.7	329.95	18.3	42.89	214.47	1,649.74	482.81	2,414.05	174.74	873.72	1,030.39	5,151.97
1037	3440.023	Detail AT4	ea	25.0	16.4	1,478.17	408.8	192.16	4,804.06	36,954.28	1,302.89	32,572.30	609.70	15,242.45	3,582.92	89,573.08
1038	3440.024	Detail ATS	ea	9.0	14.6	1,319.80	131.4	171.57	1,544.16	11,878.17	1,189.00	10,700.96	549.55	4,945.92	3,229.91	29,069.21
1039	3440.025	Detail AT6	ea	38.0	0.9	82.49	34.7	10.72	407.49	3,134.52	0.00	0.00	19.39	736.66	112.60	4,278.67
1040	3440.026	Detail AT7	ea	3.0	65.7	5,939.08	197.1	772.08	2,316.24	17,817.24	6,949.94	20,849.82	2,794.97	8,384.92	16,456.08	49,368.23
1041	3440.027	Detail AT8	ea	1.0	220.8	19,961.91	220.8	2,595.05	2,595.05	19,961.91	1,532.71	1,532.71	4,999.92	4,999.92	29,089.59	29,089.59
1042	3440.028	Detail AT9	ea	9.0	48.7	4,399.32	438.0	571.91	5,147.20	39,593.87	3,395.91	30,563.23	1,717.59	15,458.31	10,084.74	90,762.62
1043	3440.029	Detail AT10	ea	1.0	146.0	13,197.95	146.0	1,715.73	1,715.73	13,197.95	7,067.75	7,067.75	4,524.63	4,524.63	26,506.06	26,506.06
1043.1	Added	Detail AT11 (No Spec, No Drawings)	ea	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1043.2	Added	Detail AT12 (No Spec, No Drawings)	ea	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Piping support					0	$0.00				$0.00		$0.00	$0.00	$0.00
1044	3440.030	S-CS0-06	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	432.09	0.00	556.15	0.00	3,244.10	0.00
1045	3440.031	S-CS0-07	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	561.27	0.00	582.16	0.00	3,399.28	0.00
1046	3440.032	S-CS0-12	ea	2.0	32.3	2,920.33	64.6	379.64	759.29	5,840.66	2,281.21	4,562.41	1,145.59	2,291.18	6,726.77	13,453.54
1047	3440.033	S-CS1-06	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	427.08	0.00	555.15	0.00	3,238.08	0.00
1048	3440.034	S-CS1-07	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	552.41	0.00	580.39	0.00	3,388.65	0.00
1049	3440.035	S-CS2-03	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	44.92	44.92	214.63	214.63	1,248.05	1,248.05
1050	3440.036	S-CS3-01	ea	8.0	5.2	465.98	41.2	60.58	484.67	3,727.87	31.67	253.32	115.89	927.11	674.12	5,392.93
1051	3440.037	S-CS3-02	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	40.13	80.27	213.51	427.01	1,241.36	2,482.72
1052	3440.038	S-CS3-03	ea	4.0	9.7	874.43	38.7	113.68	454.70	3,497.73	60.02	240.07	217.59	870.34	1,265.71	5,062.85
1053	3440.039	S-CS3-13	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	9.50	0.00	110.41	0.00	641.57	0.00
1054	3440.040	S-DS1-02	ea	5.0	24.5	2,210.66	122.3	287.39	1,436.93	11,053.29	294.93	1,474.67	578.92	2,894.58	3,371.89	16,859.47
1055	3440.041	S-DS5-02	ea	38.0	25.2	2,281.44	959.0	296.59	11,270.32	86,694.78	706.41	26,843.71	678.39	25,778.89	3,962.83	150,587.69
1056	3440.042	S-DS7-02	ea	7.0	25.7	2,326.08	180.1	302.39	2,116.73	16,282.57	811.90	5,683.27	710.12	4,970.83	4,150.49	29,053.40
1057	3440.043	S-DS9-01	ea	3.0	32.3	2,920.09	96.9	379.61	1,138.84	8,760.28	38.29	114.88	693.97	2,081.92	4,031.97	12,095.91

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 19%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x J
1058	3440.044	S-D60-01	ea	1.0	32.3	2,919.64	32.3	379.55	379.55	2,919.64	131.08	131.08	712.55	712.55	4,142.83	4,142.83
1059	3440.045	S-ES0-04	ea	3.0	14.5	1,308.71	43.4	170.13	510.40	3,926.12	695.91	2,087.73	447.67	1,343.02	2,622.42	7,867.27
1060	3440.046	S-ES0-06	ea	3.0	19.3	1,743.09	57.8	226.60	679.81	5,229.27	758.50	2,275.51	562.36	1,687.08	3,290.56	9,871.67
1061	3440.047	S-ES0-07	ea	3.0	19.3	1,743.09	57.8	226.60	679.81	5,229.27	939.66	2,818.99	598.83	1,796.48	3,508.18	10,524.54
1062	3440.048	S-ES0-08	ea	12.0	25.7	2,327.55	309.0	302.58	3,630.98	27,930.59	1,079.21	12,950.55	764.28	9,171.37	4,473.62	53,683.48
1063	3440.049	S-ES0-13	ea	1.0	32.3	2,919.64	32.3	379.55	379.55	2,919.64	1,300.51	1,300.51	947.98	947.98	5,547.68	5,547.68
1064	3440.050	S-ES1-04	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	564.83	564.83	419.98	419.98	2,457.37	2,457.37
1065	3440.051	S-ES1-06	ea	6.0	19.3	1,746.10	115.9	226.99	1,361.96	10,476.58	627.42	3,764.54	536.67	3,220.05	3,137.19	18,823.12
1066	3440.052	S-ES1-07	ea	6.0	19.3	1,746.10	115.9	226.99	1,361.96	10,476.58	808.58	4,851.48	573.15	3,438.88	3,354.82	20,128.89
1067	3440.053	S-ES1-08	ea	12.0	25.7	2,327.55	309.0	302.58	3,630.98	27,930.59	948.13	11,377.57	737.89	8,854.71	4,316.15	51,793.85
1068	3440.054	S-ES1-11	ea	2.0	29.6	2,672.86	59.1	347.47	694.94	5,345.72	895.81	1,791.63	808.51	1,617.03	4,724.66	9,449.32
1069	3440.055	S-ES1-13	ea	1.0	32.3	2,919.64	32.3	379.55	379.55	2,919.64	1,169.42	1,169.42	921.60	921.60	5,390.22	5,390.22
1070	3440.056	S-ES2-04	ea	3.0	14.5	1,308.71	43.4	170.13	510.40	3,926.12	842.23	2,526.69	477.13	1,431.39	2,798.20	8,394.59
1071	3440.057	S-ES2-10	ea	3.0	25.7	2,326.28	77.2	302.42	907.25	6,978.83	1,601.70	4,805.09	869.17	2,607.51	5,099.56	15,298.68
1072	3440.058	S-ES3-08	ea	4.0	25.7	2,326.28	102.9	302.42	1,209.67	9,305.12	1,123.03	4,492.12	772.80	3,091.21	4,524.53	18,098.11
1073	3440.059	S-ES4-08	ea	8.0	25.8	2,328.19	206.0	302.66	2,421.31	18,625.48	1,079.21	8,633.69	764.43	6,115.46	4,474.49	35,795.95
1074	3440.060	S-ES5-01	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	91.81	0.00	371.34	0.00	2,159.73	0.00
1075	3440.061	S-ES6-01	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	61.64	0.00	120.90	0.00	704.20	0.00
1076	3440.062	S-ES7-05	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	92.79	92.79	324.94	324.94	1,890.29	1,890.29
1077	3440.063	S-HS0-01	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	104.03	208.05	115.92	231.83	676.60	1,353.20
1078	3440.064	S-HS1-10	ea	6.0	2.2	200.79	13.3	26.10	156.61	1,204.73	140.65	843.93	75.51	453.04	443.05	2,658.31
1079	3440.065	S-HS1-11	ea	6.0	9.6	871.55	57.8	113.30	679.81	5,229.27	91.68	550.10	223.28	1,339.70	1,299.81	7,798.87
1080	3440.066	S-HS1-12	ea	1.0	7.3	659.89	7.3	85.79	85.79	659.89	68.67	68.67	168.91	168.91	983.26	983.26
1081	3440.067	S-HS1-13	ea	38.0	3.5	317.36	133.4	41.26	1,567.77	12,059.78	71.31	2,709.65	88.94	3,379.75	518.87	19,716.96
1082	3440.068	S-HS1-14	ea	1.0	7.3	659.89	7.3	85.79	85.79	659.89	93.53	93.53	173.92	173.92	1,013.12	1,013.12
1083	3440.069	S-HS1-20	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	148.75	148.75	123.13	123.13	719.93	719.93
1084	3440.070	S-HS2-20	ea	6.0	7.3	662.67	44.0	86.15	516.88	3,976.03	128.50	771.03	181.61	1,089.66	1,058.93	6,353.60
1085	3440.071	S-HS2-21	ea	2.0	6.4	577.42	12.8	75.06	150.13	1,154.83	172.15	344.29	170.36	340.72	994.99	1,989.97
1086	3440.072	S-HS2-22	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	54.00	0.00	119.37	0.00	695.04	0.00
1087	3440.073	S-HS3	ea	2.0	5.4	486.61	10.8	63.26	126.52	973.21	504.81	1,009.62	215.99	431.98	1,270.66	2,541.33
1088	3440.074	S-JS0-01	ea	23.0	6.4	574.55	146.2	74.69	1,717.90	13,214.59	389.80	8,965.46	213.50	4,910.61	1,252.55	28,808.56
1089	3440.075	S-JS0-02	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	109.47	0.00	76.46	0.00	447.55	0.00
1090	3440.076	S-JS0-03	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	109.47	0.00	76.46	0.00	447.55	0.00
1091	3440.077	S-JS0-04	ea	3.0	3.2	286.05	9.5	37.19	111.56	858.14	385.46	1,156.37	144.83	434.48	853.52	2,560.55
1092	3440.078	S-JS0-05	ea	6.0	6.4	574.64	38.1	74.70	448.22	3,447.83	389.80	2,338.81	213.53	1,281.16	1,252.67	7,516.02
1093	3440.079	S-JS0-06	ea	9.0	4.9	439.93	43.8	57.19	514.72	3,959.39	284.61	2,561.53	160.69	1,446.22	942.43	8,481.86
1094	3440.080	S-JS0-08	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	109.47	0.00	76.46	0.00	447.55	0.00
1095	3440.081	S-JS0-09	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	110.28	0.00	130.69	0.00	762.60	0.00
1096	3440.082	S-JS0-10	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	110.24	0.00	130.69	0.00	762.60	0.00
1097	3440.083	S-JS0-11	ea	12.0	6.4	574.64	76.3	74.70	896.43	6,895.65	321.28	3,855.32	199.73	2,396.75	1,170.35	14,044.16
1098	3440.084	S-JS0-12	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	109.66	0.00	76.50	0.00	447.77	0.00
1099	3440.085	S-JS0-20	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	263.08	263.08	146.15	146.15	857.28	857.28
1100	3440.086	S-JS1-10	ea	59.0	5.2	474.22	309.5	61.65	3,637.29	27,979.12	84.02	4,956.98	128.36	7,573.47	748.25	44,146.86
1101	3440.087	S-JS1-11	ea	149.0	2.7	242.93	400.4	31.58	4,705.47	36,195.95	77.89	11,604.90	72.77	10,842.95	425.16	63,349.27
1102	3440.088	S-JS1-12	ea	93.0	2.8	249.94	257.1	32.49	3,021.82	23,244.76	76.97	7,158.09	74.24	6,903.97	433.64	40,328.64
1103	3440.089	S-JS1-13	ea	8.0	7.3	664.06	58.8	86.33	690.62	5,312.45	102.36	818.89	176.67	1,413.36	1,029.41	8,235.32
1104	3440.090	S-JS1-14	ea	3.0	9.7	874.32	29.0	113.66	340.98	2,622.96	107.89	323.66	227.20	681.60	1,323.07	3,969.20
1105	3440.091	S-JS1-15	ea	27.0	2.2	200.40	59.9	26.05	703.42	5,410.89	82.85	2,236.84	63.78	1,721.98	373.08	10,073.13
1106	3440.092	S-JS1-17	ea	13.0	9.7	873.07	125.5	113.50	1,475.49	11,349.96	120.23	1,562.98	229.39	2,982.07	1,336.19	17,370.51
1107	3440.093	S-JS1-18	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	29.53	0.00	114.43	0.00	665.63	0.00
1108	3440.094	S-JS1-19	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	27.04	0.00	59.85	0.00	348.50	0.00
1109	3440.095	S-JS1-20	ea	24.0	4.4	400.07	106.2	52.01	1,248.23	9,601.78	117.83	2,827.82	117.74	2,825.87	687.65	16,503.71
1110	3440.096	S-JS1-200	ea	4.0	9.7	874.43	38.7	113.68	454.70	3,497.73	161.10	644.40	237.94	951.75	1,387.15	5,548.59
1111	3440.097	S-JS1-201	ea	3.0	7.4	665.44	22.1	86.51	259.52	1,996.33	148.95	446.84	186.38	559.13	1,087.28	3,261.83
1112	3440.098	S-JS1-203	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	39.68	0.00	62.41	0.00	363.70	0.00
1113	3440.099	S-JS1-205	ea	6.0	2.2	200.79	13.3	26.10	156.61	1,204.73	114.14	684.86	70.17	421.01	411.20	2,467.22
1114	3440.100	S-JS1-21	ea	18.0	4.4	400.50	79.7	52.06	937.17	7,208.97	115.62	2,081.10	117.40	2,113.19	685.58	12,340.43
1115	3440.101	S-JS1-22	ea	12.0	4.4	400.08	53.1	52.01	624.12	4,800.90	125.75	1,509.03	119.34	1,432.09	697.18	8,366.13
1116	3440.102	S-JS1-23	ea	73.0	4.5	407.47	329.0	52.97	3,866.89	29,745.31	126.49	9,233.66	121.23	8,849.56	708.16	51,695.42
1117	3440.103	S-JS1-24	ea	55.0	4.6	413.03	251.3	53.69	2,953.16	22,716.58	75.34	4,143.95	112.24	6,173.01	654.30	35,986.69
1118	3440.104	S-JS1-25	ea	2.0	6.4	577.42	12.8	75.06	150.13	1,154.83	120.04	240.07	159.87	319.73	932.38	1,864.77
1119	3440.105	S-JS1-26	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	36.60	0.00	61.78	0.00	359.99	0.00
1120	3440.106	S-JS1-27	ea	10.0	4.4	400.93	44.4	52.12	521.21	4,009.30	127.33	1,273.33	119.86	1,198.60	700.24	7,002.44
1121	3440.107	S-JS1-28	ea	12.0	4.4	400.08	53.1	52.01	624.12	4,800.90	88.65	1,063.75	111.87	1,342.44	652.60	7,831.20
1122	3440.108	S-JS1-29	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	128.50	128.50	119.06	119.06	695.60	695.60
1123	3440.109	S-JS1-31	ea	14.0	5.5	499.68	77.4	64.96	909.41	6,995.46	146.91	2,056.80	147.01	2,058.12	858.56	12,019.79
1124	3440.110	S-JS1-32	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	148.58	148.58	123.10	123.10	719.72	719.72
1125	3440.111	S-JS1-33	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	136.23	272.47	122.40	244.80	715.29	1,430.58
1126	3440.112	S-JS1-34	ea	0.0	11.5	1,039.75	0.0	135.17	0.00	0.00	175.10	0.00	279.61	0.00	1,629.63	0.00
1127	3440.113	S-JS1-35	ea	0.0	11.5	1,039.75	0.0	135.17	0.00	0.00	175.10	0.00	279.61	0.00	1,629.63	0.00
1128	3440.114	S-JS1-40	ea	3.0	4.4	401.58	13.3	52.20	156.61	1,204.73	171.58	514.75	128.92	386.76	754.28	2,262.85
1129	3440.115	S-JS1-41	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	204.55	409.09	136.15	272.30	797.35	1,594.71
1130	3440.116	S-JS1-50	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	236.76	473.52	142.64	285.27	836.05	1,672.10
1131	3440.117	S-JS2-20	ea	1.0	6.4	578.11	6.4	75.15	75.15	578.11	328.27	328.27	201.95	201.95	1,183.48	1,183.48
1132	3440.118	S-JS2-21	ea	3.0	3.2	286.05	9.5	37.19	111.56	858.14	325.86	977.59	132.83	398.49	781.93	2,345.78
1133	3440.119	S-JS2-30	ea	4.0	14.5	1,307.32	57.8	169.95	679.81	5,229.27	337.84	1,351.35	375.25	1,501.02	2,190.36	8,761.45
1134	3440.120	S-JS2-31	ea	16.0	9.6	872.27	154.4	113.39	1,814.32	13,956.28	337.84	5,405.42	273.01	4,368.18	1,596.51	25,544.19
1135	3440.121	S-JS2-32	ea	0.0	11.5	1,039.75	0.0	135.17	0.00	0.00	175.10	0.00	279.61	0.00	1,629.63	0.00
1136	3440.122	S-JS2-33	ea	8.0	9.6	872.35	77.2	113.41	907.25	6,978.83	291.44	2,331.55	263.69	2,109.53	1,540.89	12,327.16
1137	3440.123	S-JS2-34	ea	16.0	9.6	872.27	154.4	113.39	1,814.32	13,956.28	278.00	4,447.93	260.96	4,175.41	1,524.62	24,393.94
1138	3440.124	S-JS2-40	ea	4.0	4.4	399.96	17.7	51.99	207.98	1,599.84	400.93	1,603.71	174.71	698.85	1,027.59	4,110.38
1139	3440.125	S-JS2-60	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	465.42	465.42	186.88	186.88	1,100.34	1,100.34
1140	3440.126	S-JS2-70	ea	3.0	4.4	401.58	13.3	52.20	156.61	1,204.73	599.06	1,797.17	214.98	644.95	1,267.82	3,803.47
1141	3440.127	S-JS3-01	ea	6.0	2.2	200.79	13.3	26.10	156.61	1,204.73	116.35	698.11	70.61	423.67	413.86	2,483.13
1142	3440.128	S-JS4-80	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	59.39	0.00	66.36	0.00	387.37	0.00

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1143	3440.129	S-J54-90	ea	6.0	4.4	401.35	26.6	52.17	313.05	2,408.07	1,357.40	8,144.41	367.60	2,205.61	2,178.52	13,071.13
1144	3440.130	S-J55-01	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	44.43	0.00	63.35	0.00	369.40	0.00
1145	3440.131	S-J56-40	ea	3.0	4.4	401.58	13.3	52.20	156.61	1,204.73	333.79	1,001.36	161.57	484.72	949.14	2,847.43
1146	3440.132	S-J57-30	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	564.29	564.29	419.88	419.88	2,456.78	2,456.78
1147	3440.133	S-J57-40	ea	2.0	14.5	1,311.48	29.0	170.49	340.98	2,622.96	771.95	1,543.91	463.63	927.26	2,717.56	5,435.11
1148	3440.134	S-J58-05	ea	2.0	14.5	1,311.48	29.0	170.49	340.98	2,622.96	489.17	978.34	406.69	813.39	2,377.84	4,755.68
1149	3440.135	S-J59-04	ea	2.0	14.5	1,311.48	29.0	170.49	340.98	2,622.96	172.32	344.64	342.91	685.82	1,997.21	3,994.41
1150	3440.136	S-J59-05	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	194.15	194.15	345.34	345.34	2,012.06	2,012.06
1151	3440.137	S-J60-10	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	352.94	705.88	276.48	552.96	1,617.14	3,234.27
1152	3440.138	S-J60-11	ea	1.0	7.3	659.89	7.3	85.79	85.79	659.89	589.49	589.49	273.76	273.76	1,608.93	1,608.93
1153	3440.139	S-J60-21	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	183.44	0.00	140.43	0.00	850.53	0.00
1154	3440.140	S-J60-22	ea	3.0	7.4	665.44	22.1	86.51	259.52	1,996.33	610.85	1,832.56	279.37	838.11	1,642.18	4,926.53
1155	3440.141	S-J60-40	ea	3.0	7.4	665.44	22.1	86.51	259.52	1,996.33	990.48	2,971.43	355.80	1,067.39	2,098.22	6,294.67
1156	3440.142	S-J61-01	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	521.94	521.94	198.26	198.26	1,168.24	1,168.24
1157	3440.143	S-J62-20	ea	6.0	4.4	401.35	26.6	52.17	313.05	2,408.07	145.07	870.44	123.53	741.18	722.12	4,332.73
1158	3440.144	S-J63-20	ea	3.0	14.5	1,308.71	43.4	170.13	510.40	3,926.12	345.01	1,035.03	377.03	1,131.08	2,200.87	6,602.62
1159	3440.145	S-J63-30	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	440.63	0.00	197.21	0.00	1,159.51	0.00
1160	3440.146	S-J63-40	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	18.75	0.00	112.26	0.00	652.67	0.00
1161	3440.147	S-J63-50	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	202.75	0.00	149.31	0.00	873.73	0.00
1162	3440.148	S-J63-60	ea	3.0	5.7	517.11	17.2	67.22	201.67	1,551.32	435.96	1,307.87	209.30	627.90	1,229.59	3,688.76
1163	3440.149	S-J64-10	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	126.61	0.00	133.99	0.00	782.26	0.00
1164	3440.150	S-J64-20	ea	8.0	4.4	400.13	35.4	52.02	416.14	3,201.06	74.03	592.22	108.94	871.52	635.12	5,080.94
1165	3440.151	S-K50-10	ea	1.0	32.3	2,919.64	32.3	379.55	379.55	2,919.64	3,075.09	3,075.09	1,305.26	1,305.26	7,679.54	7,679.54
1166	3440.152	S-L50-20	ea	15.0	4.4	400.38	66.4	52.05	780.73	6,005.63	252.05	3,780.73	144.84	2,172.57	849.31	12,739.67
1167	3440.153	S-L50-21	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	221.58	221.58	137.79	137.79	807.42	807.42
1168	3440.154	S-L50-30	ea	25.0	4.4	400.54	110.8	52.07	1,301.76	10,013.54	254.54	6,363.51	145.38	3,634.46	852.53	21,313.27
1169	3440.155	S-L50-40	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	130.66	0.00	134.80	0.00	787.13	0.00
1170	3440.156	S-L51-01	ea	0.0	11.5	1,039.75	0.0	135.17	0.00	0.00	291.83	0.00	303.11	0.00	1,769.86	0.00
1171	3440.157	S-L52-20	ea	4.0	4.4	399.96	17.7	51.99	207.98	1,599.84	1,355.60	5,422.40	366.91	1,467.66	2,174.47	8,697.88
1172	3440.158	S-L52-21	ea	5.0	4.4	399.27	22.1	51.90	259.52	1,996.33	805.68	4,028.39	256.04	1,280.19	1,512.89	7,564.44
1173	3440.159	S-L52-40	ea	9.0	4.4	399.57	39.8	51.94	467.50	3,596.17	1,176.49	10,588.39	330.76	2,976.87	1,958.77	17,628.93
1174	3440.160	S-L52-41	ea	9.0	4.4	399.57	39.8	51.94	467.50	3,596.17	1,270.50	11,434.54	349.69	3,147.22	2,071.71	18,645.43
1175	3440.161	S-L53-01	ea	4.0	25.7	2,326.28	102.9	302.42	1,209.67	9,305.12	1,342.65	5,370.59	817.02	3,268.07	4,788.36	19,153.45
1176	3440.162	S-L53-02	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	291.83	0.00	411.60	0.00	2,400.02	0.00
1177	3440.163	S-L54-50	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	446.93	0.00	446.86	0.00	2,610.37	0.00
1178	3440.164	S-L54-51	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	1,124.14	1,124.14	329.50	329.50	1,891.69	1,891.69
1179	3440.165	S-L54-61	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	1,146.91	2,293.81	325.88	651.76	1,929.44	3,858.88
1180	3440.166	S-L54-62	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	1,163.04	1,163.04	327.33	327.33	1,938.42	1,938.42
1181	3440.167	S-L54-70	ea	3.0	4.4	401.58	13.3	52.20	156.61	1,204.73	1,406.72	4,220.17	377.58	1,132.75	2,238.09	6,714.27
1182	3440.168	S-L54-71	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	1,295.21	2,590.41	355.73	711.47	2,107.59	4,215.19
1183	3440.169	S-L54-80	ea	8.0	4.4	400.13	35.4	52.02	416.14	3,201.06	1,408.37	11,266.99	377.58	3,020.62	2,238.10	17,904.81
1184	3440.170	S-L54-90	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	1,342.84	2,685.68	365.32	730.65	2,164.82	4,329.63
1185	3440.171	S-L55-01	ea	15.0	4.4	400.38	66.4	52.05	780.73	6,005.63	664.58	9,968.68	227.89	3,418.37	1,344.89	20,173.41
1186	3440.172	S-L56	ea	4.0	25.7	2,326.28	102.9	302.42	1,209.67	9,305.12	3,983.06	15,932.24	1,348.60	5,394.41	7,960.36	31,841.43
1187	3440.173	S-L57	ea	4.0	25.7	2,326.28	102.9	302.42	1,209.67	9,305.12	9,322.09	37,288.35	2,423.48	9,693.94	14,374.27	57,497.07
1188	3440.174	S-L59-10	ea	5.0	7.3	663.22	36.7	86.22	431.10	3,316.12	390.74	1,953.70	234.53	1,172.67	1,374.72	6,873.58
1189	3440.175	S-L59-20	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	383.50	767.00	172.18	344.35	1,012.33	2,024.66
1190	3440.176	S-L59-30	ea	6.0	4.4	401.35	26.6	52.17	313.05	2,408.07	389.26	2,335.58	172.69	1,036.14	1,015.47	6,092.84
1191	3440.177	S-L60	ea	4.0	19.3	1,744.71	77.2	226.81	907.25	6,978.83	3,227.82	12,911.28	1,059.88	4,239.51	6,259.22	25,036.86
1192	3440.178	S-L61	ea	4.0	19.3	1,744.71	77.2	226.81	907.25	6,978.83	4,008.65	16,034.59	1,217.07	4,868.29	7,197.24	28,788.96
1193	3440.179	S-L62	ea	4.0	19.3	1,744.71	77.2	226.81	907.25	6,978.83	6,824.44	27,297.78	1,783.97	7,135.87	10,579.93	42,319.74
1194	3440.180	S-L64-10	ea	2.0	14.5	1,311.48	29.0	170.49	340.98	2,622.96	1,010.85	2,021.71	511.73	1,023.46	3,004.56	6,009.11
1195	3440.181	S-L65-01	ea	5.0	14.5	1,309.82	72.4	170.28	851.38	6,549.08	1,005.26	5,026.30	510.21	2,551.06	2,995.56	14,977.82
1196	3440.182	S-L65-02	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	466.93	0.00	446.86	0.00	2,610.37	0.00
1197	3440.183	S-L66-01	ea	2.0	4.5	404.12	8.9	52.54	105.07	808.24	724.50	1,448.99	240.84	481.68	1,421.99	2,843.98
1198	3440.184	S-L67-10	ea	0.0	11.5	1,039.75	0.0	135.17	0.00	0.00	291.83	0.00	303.11	0.00	1,769.86	0.00
1199	3440.185	S-L67-20	ea	2.0	6.4	577.42	12.8	75.06	150.13	1,154.84	529.81	1,059.63	242.36	484.72	1,424.65	2,849.31
1200	3440.186	S-L67-21	ea	3.0	7.4	665.44	22.1	86.51	259.52	1,996.33	568.30	1,704.91	270.80	812.41	1,591.05	4,773.16
1201	3440.187	S-L67-22	ea	1.0	6.4	578.11	6.4	75.15	75.15	578.11	728.91	728.91	282.61	282.61	1,664.78	1,664.78
1202	3440.188	S-L71-20	ea	37.0	6.4	574.73	235.2	74.72	2,764.46	21,265.07	1,095.14	40,520.14	355.55	13,155.34	2,100.14	77,705.01
1203	3440.189	S-L71-21	ea	0.0	11.5	1,039.75	0.0	135.17	0.00	0.00	291.83	0.00	303.11	0.00	1,769.86	0.00
1204	3440.190	S-L72-20	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	1,142.14	2,284.28	435.36	870.73	2,565.22	5,130.45
1205	3440.191	S-L72-30	ea	8.0	9.6	872.35	77.2	113.41	907.25	6,978.83	1,240.78	9,926.21	454.82	3,638.53	2,681.35	21,450.82
1206	3440.192	S-L72-40	ea	5.0	9.6	871.17	48.2	113.25	566.26	4,355.87	1,416.27	7,081.35	489.87	2,449.35	2,890.57	14,452.83
1207	3440.193	S-L73-41	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	1,498.06	1,498.06	507.18	507.18	2,993.75	2,993.75
1208	3440.194	S-L73-20	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	291.83	0.00	411.60	0.00	2,400.02	0.00
1209	3440.195	S-L75-20	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	466.93	0.00	446.86	0.00	2,610.37	0.00
1210	3440.196	S-L76-30	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	466.93	0.00	446.86	0.00	2,610.37	0.00
1211	3440.197	S-L77-40	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	466.93	0.00	446.86	0.00	2,610.37	0.00
1212	3440.198	S-L78-20	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	466.93	0.00	446.86	0.00	2,610.37	0.00
1213	3440.199	S-L79	ea	1.0	6.4	578.11	6.4	75.15	75.15	578.11	1,312.14	1,312.14	400.03	400.03	2,365.44	2,365.44
1214	3440.200	S-M50-01	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	466.93	0.00	563.17	0.00	3,285.96	0.00
1215	3440.201	S-M50-02	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	466.93	0.00	563.17	0.00	3,285.96	0.00
1216	3440.202	S-M51-01	ea	1.0	32.3	2,919.64	32.3	379.55	379.55	2,919.64	2,444.34	2,444.34	1,178.26	1,178.26	6,921.80	6,921.80
1217	3440.203	S-M52-01	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	466.93	0.00	563.17	0.00	3,285.96	0.00
1218	3440.204	S-M52-02	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	1,080.23	0.00	686.64	0.00	4,022.72	0.00
1219	3440.205	S-M53-08	ea	4.0	9.7	874.43	38.7	113.68	454.70	3,497.73	798.55	1,194.22	265.61	1,062.44	1,552.27	6,209.09
1220	3440.206	S-M53-09	ea	12.0	12.9	1,163.02	154.8	151.19	1,814.32	13,956.28	369.94	4,439.32	347.81	4,173.69	2,031.97	24,383.61
1221	3440.207	S-M54-01	ea	0.0	16.6	1,501.40	0.0	195.18	0.00	0.00	1,209.34	0.00	596.31	0.00	3,502.23	0.00
1222	3440.208	S-M54-02	ea	4.0	25.7	2,326.28	102.9	302.42	1,209.67	9,305.12	820.93	3,283.70	711.98	2,847.92	4,161.60	16,646.41
1223	3440.209	S-M55-02	ea	1.0	3.1	280.05	3.1	36.41	36.41	280.05	101.96	101.96	86.35	86.35	504.76	504.76
1224	3440.210	S-M55-03	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	432.09	0.00	141.41	0.00	835.12	0.00
1225	3440.211	S-M55-05	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	561.21	0.00	221.48	0.00	1,304.35	0.00
1226	3440.212	S-M55-06	ea	40.0	4.7	426.47	188.7	55.44	2,217.66	17,058.91	111.27	4,450.72	122.63	4,905.13	715.81	28,632.42
1227	3440.213	S-M55-07	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	135.08	135.08	232.77	232.77	1,356.35	1,356.35

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1228	3440.214	S-MS5-08	ea	13.0	9.7	873.07	125.5	113.50	1,475.49	11,349.96	198.04	2,574.53	245.06	3,185.72	1,429.67	18,585.71
1229	3440.215	S-MS5-09	ea	7.0	14.5	1,308.11	101.3	170.05	1,190.38	9,156.77	260.74	1,825.18	359.92	2,519.44	2,098.82	14,691.76
1230	3440.216	S-MS6-01	ea	8.0	7.3	664.06	58.8	86.33	690.62	5,312.45	198.15	1,585.23	195.96	1,567.66	1,144.49	9,155.96
1231	3440.217	S-MS6-04	ea	2.0	14.5	1,311.48	29.0	170.49	340.98	2,622.96	301.07	602.15	368.83	737.66	2,151.88	4,303.75
1232	3440.218	S-MS7-05	ea	1.0	4.4	396.50	4.4	51.55	51.55	396.50	111.64	111.64	115.66	115.66	675.35	675.35
1233	3440.219	S-MS8-01	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	193.00	0.00	93.27	0.00	547.88	0.00
1234	3440.220	S-MS8-02	ea	0.0	2.6	231.52	0.0	30.10	0.00	0.00	14.19	0.00	57.27	0.00	333.08	0.00
1235	3440.221	S-MS8-05	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	15.35	0.00	111.59	0.00	648.60	0.00
1236	3440.222	S-MS8-06	ea	6.0	4.4	401.35	26.6	52.17	313.05	2,408.07	403.05	2,418.31	175.47	1,052.80	1,032.04	6,192.23
1237	3440.223	S-MS8-07	ea	33.0	9.7	872.85	318.6	113.47	3,744.52	28,803.99	532.45	17,570.80	312.33	10,306.82	1,831.10	60,426.14
1238	3440.224	S-MS8-08	ea	42.0	9.7	872.80	405.5	113.46	4,765.49	36,657.62	183.38	7,702.06	242.04	10,165.69	1,411.69	59,290.86
1239	3440.225	S-MS9-01	ea	3.0	14.5	1,308.71	43.4	170.13	510.40	3,926.12	348.52	1,045.55	377.73	1,133.19	2,205.08	6,615.25
1240	3440.226	S-M60-01	ea	0.0	22.1	1,996.33	0.0	259.52	0.00	0.00	13.17	0.00	471.83	0.00	2,740.85	0.00
1241	3440.227	S-M61-20	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	2,325.41	2,325.41	774.42	774.42	4,572.40	4,572.40
1242	3440.228	S-M61-21	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	1,202.02	1,202.02	447.58	447.58	2,638.10	2,638.10
1243	3440.229	S-M61-30	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	2,199.86	4,399.71	648.31	1,296.62	3,835.89	7,671.77
1244	3440.230	S-M61-31	ea	16.0	11.8	1,064.10	188.3	138.33	2,213.33	17,025.64	1,275.10	20,401.57	506.79	8,108.64	2,984.32	47,749.18
1245	3440.231	S-M61-40	ea	16.0	14.5	1,309.49	231.8	170.23	2,723.73	20,951.76	2,211.45	35,383.14	752.97	12,047.51	4,444.13	71,106.14
1246	3440.232	S-M61-41	ea	5.0	9.6	871.17	48.2	113.25	566.26	4,355.87	2,211.45	11,057.23	649.96	3,249.80	3,845.83	19,229.17
1247	3440.233	S-M61-42	ea	5.0	9.6	871.17	48.2	113.25	566.26	4,355.87	1,431.04	7,155.22	492.84	2,464.22	2,908.31	14,541.57
1248	3440.234	S-M62-30	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	2,337.01	2,337.01	676.09	676.09	4,001.59	4,001.59
1249	3440.235	S-M62-31	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	1,274.92	2,549.85	462.10	924.20	2,724.75	5,449.49
1250	3440.236	S-M62-32	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	2,187.52	2,187.52	746.66	746.66	4,406.74	4,406.74
1251	3440.237	S-M62-40	ea	1.0	14.4	1,303.15	14.4	169.41	169.41	1,303.15	2,211.45	2,211.45	751.48	751.48	4,435.49	4,435.49
1252	3440.238	S-M62-41	ea	1.0	9.7	874.78	9.7	113.72	113.72	874.78	1,246.94	1,246.94	456.61	456.61	2,692.05	2,692.05
1253	3440.239	S-M63-05	ea	0.0	5.1	461.65	0.0	60.01	0.00	0.00	13.42	0.00	111.20	0.00	646.29	0.00
1254	3440.240	S-M66-01	ea	12.0	9.7	873.05	115.9	113.50	1,361.96	10,476.58	843.00	10,115.97	374.50	4,498.75	2,204.44	26,453.25
1255	3440.241	S-M66-02	ea	12.0	9.7	873.05	115.9	113.50	1,361.96	10,476.58	887.17	10,645.99	383.79	4,605.48	2,257.50	27,090.01
1256	3440.242	S-M67-20	ea	2.0	9.7	874.09	19.3	113.63	227.26	1,748.18	2,806.44	4,612.89	669.77	1,339.54	3,963.94	7,927.87
1257	3440.243	S-M67-40	ea	3.0	9.7	874.32	29.0	113.66	340.98	2,622.96	2,954.85	8,864.56	800.36	2,401.09	4,743.20	14,229.60
1258	3310.020	Mechanical Shaft Platform/Staging	LS	1.0	1173.4	106,078.60	1,173.4	13,790.22	13,790.22	106,078.60	43,599.98	43,599.98	33,707.83	33,707.83	197,176.62	197,176.62
1258a	Added	House Keeping pads for MECH Equipment	ea	1.0	3527.4	318,895.68	3,527.38	41,456.44	41,456.44	318,895.68	6,111.00	6,111.00	76,175.49	76,175.49	442,638.61	442,638.61
1258b	Added	Pipe Supports With no Pay Item	ea	2,144.0	4.4	401.65	9,525.28	52.21	111,948.26	861,140.48	63.61	136,385.14	107.20	229,838.53	624.68	1,339,312.42
ST03		SUB-TOTAL PIPING/MECHANICAL - SUPPLY AND INSTALLATION					168451.9		$1,979,776.14	$15,229,047.24		$15,993,907.20		$5,656,509.39		$38,859,239.97
		HVAC SYSTEMS														
		HVAC SYSTEMS - SUPPLY AND INSTALLATION														
1259	3351.010	EDD (Dewatering gallery supply and Exhaust)	LS	1.0	3693.6	333,924.99	3,693.6	43,410.25	43,410.25	333,924.99	203,124.55	203,124.55	111,424.10	111,424.10	691,883.89	691,883.89
1260	3351.020	EGR (Exhaust for Trans., Storage and Garbage rooms)	LS	1.0	1083.6	97,961.57	1,083.6	12,735.00	12,735.00	97,961.57	54,605.09	54,605.09	31,559.36	31,559.36	196,861.02	196,861.02
1261	3351.030	EKH (Kitchen range exhaust)	LS	1.0	203.3	18,378.71	203.3	2,389.23	2,389.23	18,378.71	13,832.27	13,832.27	6,670.56	6,670.56	41,270.78	41,270.78
1262	3351.040	END (Exhaust North RCC Dam)	LS	1.0	317.2	28,672.29	317.2	3,727.40	3,727.40	28,672.29	12,378.04	12,378.04	8,507.94	8,507.94	53,285.66	53,285.66
1263	3351.050	EOR (Exhaust oil Storage Room)	LS	1.0	92.2	8,331.90	92.2	1,083.15	1,083.15	8,331.90	8,808.65	8,808.65	3,514.79	3,514.79	21,738.49	21,738.49
1264	3351.060	ESB (South service bay vent and exhaust)	LS	1.0	211.9	19,153.68	211.9	2,489.98	2,489.98	19,153.68	32,757.46	32,757.46	10,662.83	10,662.83	65,061.95	65,061.95
1265	3351.070	ESP (Exhaust for Waste Water treatment Room)	LS	1.0	133.6	12,076.41	133.6	1,569.93	1,569.93	12,076.41	15,141.71	15,141.71	5,597.55	5,597.55	34,385.60	34,385.60
1266	3351.080	ESR (Ventilate and exhaust Oil/water Interceptor Room)	LS	1.0	705.8	63,811.85	705.8	8,295.54	8,295.54	63,811.85	39,313.93	39,313.93	21,466.64	21,466.64	132,887.96	132,887.96
1267	3351.090	ESW (Exhaust Storage, Washrooms and Janitor rooms)	LS	1.0	984.0	88,954.53	984.0	11,564.09	11,564.09	88,954.53	57,515.11	57,515.11	30,317.43	30,317.43	188,851.15	188,851.15
1268	3351.100	EWT (Exhaust and Ventilate the Wastewater Treatment Room)	LS	1.0	153.7	13,891.13	153.7	1,805.85	1,805.85	13,891.13	13,467.95	13,467.95	5,614.81	5,614.81	34,779.74	34,779.74
1269	3351.110	PSC (Pressurize 4 Stairwells)	LS	1.0	3914.6	353,903.54	3,914.6	46,007.46	46,007.46	353,903.54	248,256.96	248,256.96	124,627.68	124,627.68	772,795.64	772,795.64
1270	3351.120	VCC (Control Room, Communication Room and assoc. space)	LS	1.0	5320.8	481,032.33	5,320.8	62,534.20	62,534.20	481,032.33	404,624.46	404,624.46	182,951.16	182,951.16	1,131,142.15	1,131,142.15
1271	3351.130	VCR (Ventilation and Cooling for Compressor Room)	LS	1.0	313.9	28,375.62	313.9	3,688.83	3,688.83	28,375.62	82,255.67	82,255.67	22,506.39	22,506.39	136,826.51	136,826.51
1272	3351.140	VDA (Ventilate Dewatering, Drainage and Draft tube galleries)	LS	1.0	1013.0	91,577.48	1,013.0	11,905.07	11,905.07	91,577.48	38,298.76	38,298.76	27,065.11	27,065.11	168,846.42	168,846.42
1273	3351.150	VDT (Ventilate Draft Tube Gallery)	LS	1.0	292.3	26,429.19	292.3	3,435.79	3,435.79	26,429.19	188,527.90	188,527.90	43,444.29	43,444.29	261,837.17	261,837.17
1274	3351.160	VEG (Diesel Emergency Generator)	LS	1.0	1692.4	152,997.90	1,692.4	19,889.73	19,889.73	152,997.90	101,633.12	101,633.12	52,805.68	52,805.68	327,326.43	327,326.43
1275	3351.170	VEL (Ventilate and Exhaust Elevator Machine Room)	LS	1.0	153.5	13,874.50	153.5	1,803.69	1,803.69	13,874.50	15,488.57	15,488.57	6,017.71	6,017.71	37,184.46	37,184.46
1276	3351.180	VER (Ventilate Electrical Battery and Charger Rooms)	LS	1.0	5009.5	452,888.24	5,009.5	58,875.47	58,875.47	452,888.24	369,826.54	369,826.54	170,198.18	170,198.18	1,051,788.45	1,051,788.45
1277	3351.190	VFP (Ventilate the Fire Pump Room)	LS	1.0	86.3	7,803.72	86.3	1,014.48	1,014.48	7,803.72	12,156.81	12,156.81	4,093.61	4,093.61	25,068.62	25,068.62
1278	3351.200	VIG (Ventilation for Lower inspection galleries)	LS	1.0	357.1	32,285.09	357.1	4,197.06	4,197.06	32,285.09	8,811.76	8,811.76	8,566.77	8,566.77	53,860.68	53,860.68
1279	3351.210	VIL (Ventilate and Exhaust Intake Gate Hoist Building)	LS	1.0	4744.0	428,883.76	4,744.0	55,754.89	55,754.89	428,884.76	1,799,842.07	1,799,842.07	452,658.07	452,658.07	2,737,138.78	2,737,138.78
1280	3351.220	VMR (Machine Hall Main Supply and Exhaust)	LS	1.0	16522.7	1,493,745.55	16,522.7	194,186.92	194,186.92	1,493,745.55	4,112,783.74	4,112,783.74	1,142,937.11	1,142,937.11	6,943,653.33	6,943,653.33
1281	3351.230	VMS (Warehouse and Workshop spaces)	LS	1.0	2038.5	184,293.14	2,038.5	23,958.11	23,958.11	184,293.14	116,486.01	116,486.01	62,428.30	62,428.30	387,165.56	387,165.56
1282	3351.240	VND (Ventilate North RCC Dam)	LS	1.0	1059.3	95,768.38	1,059.3	12,449.89	12,449.89	95,768.38	65,522.70	65,522.70	33,386.42	33,386.42	207,127.39	207,127.39
1283	3351.250	VOF (Offices and admin spaces on Mezz. 1 & 2)	LS	1.0	12423.6	1,123,162.94	12,423.6	146,011.18	146,011.18	1,123,162.94	863,230.63	863,230.63	410,873.79	410,873.79	2,543,278.54	2,543,278.54
1284	3351.260	VCD (Ventilate Centre Transition Dam)	LS	1.0	919.9	83,163.78	919.9	10,811.29	10,811.29	83,163.78	44,994.59	44,994.59	26,580.31	26,580.31	165,549.97	165,549.97
1285	3351.270	VSD (Ventilate South Dam)	LS	1.0	773.7	69,949.19	773.7	9,093.39	9,093.39	69,949.19	49,360.39	49,360.39	24,642.63	24,642.63	153,045.60	153,045.60
1286	3351.280	EMCS (Energy Monitoring and Control System)	LS	1.0	17630.3	1,593,882.29	17,630.3	207,204.70	207,204.70	1,593,882.29	1,293,721.85	1,293,721.85	467,394.78	467,394.78	3,562,203.61	3,562,203.61
1286.1	3351.290	EBR (Exhaust Battery Room)	LS	1.0	1295.3	117,098.61	1,295.3	15,222.82	15,222.82	117,098.61	94,185.83	94,185.83	43,591.98	43,591.98	270,099.24	270,099.24
1286.2	3351.300	EWH (Exhaust Welding Hood)	LS	1.0	398.6	36,030.98	398.6	4,684.03	4,684.03	36,030.98	88,951.82	88,951.82	25,740.32	25,740.32	155,407.15	155,407.15
1286.3	3351.310	ESC (Smoke Exhaust)	LS	1.0	292.3	26,429.19	292.3	3,435.79	3,435.79	26,429.19	35,016.34	35,016.34	12,379.51	12,379.51	77,260.83	77,260.83
1286.4	3351.320	VSA (Spiral Case Access)	LS	1.0	71.4	6,450.64	71.4	838.58	838.58	6,450.64	44,333.44	44,333.44	10,065.77	10,065.77	61,688.43	61,688.43
1286.5	Added	House Keeping Pads for HVAC Equipment	LS	1.0	5888.7	532,372.68	5,888.70	69,208.45	69,208.45	532,372.68	26,422.64	26,422.64	130,434.97	130,434.97	758,438.74	758,438.74
			0				0.0	$0.00	$0.00	$0.00		$0.00		$0.00	$0.00	$0.00
ST04		SUB-TOTAL HVAC SYSTEM - SUPPLY, INSTALLATION					68790.2		$1,055,282.25	$8,117,555.80		$10,555,677.35		$3,720,726.54		$23,449,241.94
		ELECTRICAL - SUPPLY AND INSTALLATION														
		ELECTRICAL - DESIGN AND ENGINEERING														
1287	3343.020	Fire Detection System - Electrical Engineering	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	72,141.33	72,141.33	217.98	217.98	72,359.30	72,359.30
1288	3000.270	Cable Tray Structural Support Design and Engineering	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	72,958.46	72,958.46	220.44	220.44	73,178.90	73,178.90
1289	3310.030	Electrical Shaft Platform/Staging Structural Design and Engineering	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	109,437.69	109,437.69	330.66	330.66	109,768.35	109,768.35
ST05		SUB-TOTAL ELECTRICAL - DESIGN AND ENGINEERING					0.0		$0.00	$0.00		$254,537.48		$769.08		$255,306.56
		ELECTRICAL - CONTRACTOR SUPPLIED - SUPPLY AND INSTALLATION														
1290	3340.010	Spillway Feeder Transformer, 1250 kVA, dry type, 600 V primary, 25/14.4 kV solidly grounded secondary, 60 Hz, NEMA 2 enclosure, air natural cooled (ANN)	ea	1.0	193.3	17,474.81	193.3	2,271.73	2,271.73	17,474.81	87,619.63	87,619.63	21,746.93	21,746.93	129,113.10	129,113.10

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1291	3340.020	Spillway Feeder Transformer, 1250 kVA, dry type, 600 V primary, 25/14.4 kV solidly grounded secondary, 60 Hz, NEMA 2 enclosure, air natural cooled (ANN) - Alternate Design Option	ea	1.0	188.0	16,999.30	188.0	2,209.91	2,209.91	16,999.30	75.32	75.32	4,010.24	4,010.24	23,294.77	23,294.77
1292	3340.030	Spillway Feeder Switchgear, 600 V, 3 phase, 3 wire, 1600 A, 42 kA IC, NEMA 1A enclosure	ea	1.0	164.0	14,828.29	164.0	1,927.68	1,927.68	14,828.29	257,961.49	257,961.49	55,419.17	55,419.17	330,136.62	330,136.62
1293	3435.010	Station Service Transformer, 2500 kVA, dry type, 15 kV primary, 600/347 V solidly grounded secondary, 60 Hz, NEMA Type 2 enclosure, air natural cooled (ANN), off-load tap changer ± 2 x 2.5%	ea	4.0	259.0	23,411.13	1,035.8	3,043.45	12,173.79	93,644.50	133,889.20	535,556.78	32,457.31	129,829.22	192,801.07	771,204.29
1294	3433.010	Station Service Switchgear, 600 V, 3 phase, 3 wire, 3200 A, 42 kA IC, NEMA 1A enclosure	ea	4.0	263.7	23,840.20	1,054.8	3,099.23	12,396.90	95,360.80	459,882.49	1,839,529.98	98,189.00	392,756.02	585,010.92	2,340,043.70
1295	3433.020	Unit Motor Control Centre, 600 V, 3 phase, 3 wire, 800 A, 42 kA IC, NEMA 2 enclosure	ea	4.0	592.0	53,521.05	2,368.0	6,957.74	27,830.95	214,084.21	356,547.74	1,426,190.94	84,360.49	337,441.96	501,387.01	2,005,548.06
1296	3290.010	Intake MCC, 600 V, 3 phase, 3 wire, 1200 A, 42 kA IC, NEMA 3R enclosure	ea	2.0	447.3	40,440.93	894.7	5,257.32	10,514.64	80,881.86	453,509.25	907,018.50	100,807.32	201,614.64	600,014.82	1,200,029.64
1297	3340.040	Essential Service MCC, 600 V, 3 phase, 3 wire, 1200 A, 42 kA IC, NEMA 2 enclosure	ea	1.0	982.4	88,818.66	982.4	11,546.43	11,546.43	88,818.66	831,432.45	831,432.45	188,262.48	188,262.48	1,120,060.02	1,120,060.02
1298	3340.050	Common Station Service MCC, 600 V, 3 phase, 3 wire, 1200 A, 42 kA IC, NEMA 2 enclosure	ea	4.0	644.1	58,226.64	2,576.2	7,569.46	30,277.85	232,906.54	379,524.13	1,518,096.53	90,092.11	360,368.45	535,412.34	2,141,649.37
1299	3000.001	Panelboard, 400 A, 600 V, 3 phase, 3 wire, 60 circuit, 35 kA IC, NEMA 12 enclosure, surface mounting trim, complete with breakers as indicated	ea	4.0	59.3	5,362.36	237.3	697.11	2,788.43	21,449.45	25,289.52	101,158.06	6,351.66	25,406.66	37,700.65	150,802.60
1300	3000.002	Panelboard, 400 A, 600 V, 3 phase, 3 wire, 72 circuit, 35 kA IC, NEMA 12 enclosure, surface mounting trim, complete with breakers as indicated	ea	1.0	59.3	5,362.36	59.3	697.11	697.11	5,362.36	26,097.95	26,097.95	6,514.42	6,514.42	38,671.84	38,671.84
1301	3000.003	Panelboard, 225 A, 600 V, 3 phase, 3 wire, 42 circuit, 35 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	5.0	37.8	3,418.44	189.1	444.40	2,221.98	17,092.18	18,319.20	91,596.02	4,491.51	22,457.56	26,673.55	133,367.75
1302	3000.004	Panelboard, 225 A, 600 V, 3 phase, 3 wire, 60 circuit, 35 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	2.0	56.7	5,125.30	113.4	666.29	1,332.58	10,250.60	13,817.79	27,635.58	3,986.40	7,972.80	23,595.78	47,191.55
1303	3000.005	Panelboard, 100 A, 600/347 V, 3 phase, 4 wire, 30 circuit, 35 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	11.0	25.2	2,280.53	277.5	296.47	3,261.16	25,085.82	11,381.54	125,196.91	2,827.36	31,100.91	16,785.89	184,644.79
1304	3000.006	Panelboard, 225 A, 208/120 V, 3 phase, 4 wire, 72 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	1.0	56.7	5,125.30	56.7	666.29	666.29	5,125.30	2,267.33	2,267.33	1,661.00	1,661.00	9,719.92	9,719.92
1305	3000.007	Panelboard, 225 A, 208/120 V, 3 phase, 4 wire, 66 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	4.0	56.7	5,125.30	226.8	666.29	2,665.16	20,501.20	1,731.97	6,927.89	1,553.21	6,212.85	9,076.77	36,307.10
1306	3000.008	Panelboard, 225 A, 208/120 V, 3 phase, 4 wire, 42 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	2.0	41.0	3,702.92	81.9	481.38	962.76	7,405.83	4,285.65	8,571.30	1,733.05	3,466.10	10,202.99	20,405.99
1307	3000.009	Panelboard, 225 A, 208/120 V, 3 phase, 4 wire, 30 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	0.0	50.4	4,552.75	0.0	591.86	0.00	0.00	1,429.99	0.00	1,357.86	0.00	7,932.45	0.00
1308	3000.010	Panelboard, 225 A, 208/120 V, 3 phase, 4 wire, 24 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers.	ea	1.0	56.7	5,125.30	56.7	666.29	666.29	5,125.30	944.33	944.33	1,394.64	1,394.64	8,130.56	8,130.56
1309	3000.011	Panelboard, 100 A, 208/120 V, 3 phase, 4 wire, 30 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with breakers and installed in a NEMA 4X Enclosure with Anti-condensation heater and thermostat	ea	7.0	25.2	2,280.53	176.6	296.47	2,075.28	15,963.71	1,755.14	12,285.99	889.31	6,225.19	5,221.45	36,550.18
1310	3000.012	Panelboard, 100 A, rated 250 Vdc for operation on 125 Vdc 2 wire system, 60 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with two-pole bolt-on distribution breakers.	ea	2.0	25.2	2,280.53	50.5	296.47	592.94	4,561.06	10,938.35	21,876.71	2,738.14	5,476.27	16,253.49	32,506.98
1311	3000.013	Panelboard, 100 A, rated 250 Vdc for operation on 125 Vdc 2 wire system, 40 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with two-pole bolt-on distribution breakers.	ea	2.0	25.2	2,280.53	50.5	296.47	592.94	4,561.06	10,108.84	20,217.69	2,571.13	5,142.25	15,256.97	30,513.94
1312	3000.014	Panelboard, 100 A, rated 250 Vdc for operation on 125 Vdc 2 wire system, 24 circuit, 10 kA IC, NEMA 12 enclosure, surface mounting trim, provided with two-pole bolt-on distribution breakers.	ea	4.0	25.2	2,280.53	100.9	296.47	1,185.87	9,122.11	5,071.91	20,287.64	1,557.06	6,228.25	9,205.97	36,823.87
1313	3000.015	600 Volt, 3-Pole, 100A Electrically Held contactor complete with 120V Coil, Undervoltage Relay (with 125Vdc rated alarm contacts), 347/120V, 100VA control Power transformer and fusing mounted in a NEMA 12 Enclosure	ea	4.0	21.4	1,932.56	85.5	251.23	1,004.93	7,730.23	4,229.97	16,919.87	1,305.78	5,223.13	7,719.54	30,878.16
1314	3000.016	1065 mm x 760 mm x 250 mm deep NEMA 4X stainless steel enclosure with hinged door to house parking area panelboard, complete with 150 W anticondensation heater and thermostat.	ea	1.0	26.7	2,410.84	26.7	313.41	313.41	2,410.84	3,424.27	3,424.27	1,255.97	1,255.97	7,404.49	7,404.49
1315	3000.017	Dry-type Isolation Transformer, 45 kVA, three phase, 600 V delta primary, 600/347 V wye secondary, NEMA 2 enclosure.	ea	4.0	40.0	3,614.19	159.9	469.84	1,879.38	14,456.75	4,965.47	19,861.87	1,849.06	7,396.25	10,898.56	43,594.25
1316	3000.018	Dry-type Isolation Transformer, 45 kVA, three phase, 600 V delta primary, 600/347 V wye secondary, NEMA 3R enclosure.	ea	1.0	40.0	3,614.20	40.0	469.85	469.85	3,614.20	5,333.18	5,333.18	1,923.09	1,923.09	11,340.32	11,340.32
1317	3000.019	Dry-type Distribution Transformer, 30 kVA, three phase, 600 V delta primary, 208/120 V wye secondary, NEMA 2 enclosure.	ea	12.0	52.0	4,703.85	624.4	611.50	7,338.01	56,446.23	4,530.43	54,365.11	2,017.57	24,210.79	11,863.35	142,360.14
1318	3000.020	Dry-type Distribution Transformer, 30 kVA, three phase, 600 V delta primary, 208/120 V wye secondary, NEMA 3R enclosure.	ea	4.0	38.4	3,468.63	153.5	450.92	1,803.69	13,874.50	3,723.51	14,894.02	1,564.82	6,259.26	9,207.87	36,831.47
1319	3340.060	Battery Charger, 125 Vdc, 37.5 kW (Station Control and Protection), 600 V, 3 phase input.	ea	4.0	56.7	5,125.30	226.8	666.29	2,665.16	20,501.20	54,600.43	218,401.73	12,196.99	48,787.98	72,589.02	290,356.06
1320	3340.070	125 Vdc Battery Bank (Station Control and Protection), 60 cell, lead acid batteries, 2320 Ah, complete with 400 A, 2-pole, fusible disconnect switch.	ea	2.0	335.2	30,301.24	670.3	3,939.16	7,878.32	60,602.48	234,118.47	468,236.95	54,255.32	108,510.64	322,614.20	645,228.39
1321	3340.080	125 Vdc Distribution Switchboard (Station Control and Protection), 400 A, 14 kA IC	ea	2.0	97.8	8,837.92	195.5	1,148.93	2,297.86	17,675.83	63,284.33	126,568.67	14,817.81	29,635.62	88,088.99	176,177.98
1322	3340.090	Battery Charger, 125 Vdc, 55 kW (Field Flashing and Emerg. Ltg), 600 V, 3 phase input.	ea	2.0	56.7	5,125.30	113.4	666.29	1,332.58	10,250.60	63,424.43	126,848.85	13,973.49	27,946.99	83,189.51	166,379.02
1323	3340.100	125 Vdc Battery Bank (Field Flashing and Emerg. Ltg), 60 cell, lead acid batteries, 2350 Ah, complete with 400 A, 2-pole, fusible disconnect switch.	ea	1.0	335.2	30,301.25	335.2	3,939.16	3,939.16	30,301.25	234,118.47	234,118.47	54,255.32	54,255.32	322,614.21	322,614.21
1324	3340.110	125 Vdc Distribution Switchboard (Field Flashing and Emerg. Ltg), 400 A, 14kA IC	ea	1.0	97.8	8,837.92	97.8	1,148.93	1,148.93	8,837.92	70,076.77	70,076.77	16,185.30	16,185.30	96,248.92	96,248.92
1325	3340.120	Battery Charger, 48 Vdc, 10 kW (Telecommunications), 600 V, 3 phase input.	ea	4.0	52.5	4,742.67	209.8	616.55	2,466.19	18,970.67	28,826.96	115,307.85	6,918.21	27,672.84	41,104.39	164,417.55
1326	3340.130	48 Vdc Battery Bank (Telecommunications), 24 cell, lead acid batteries, 1800 Ah, complete with 400 A, 2-pole, fusible disconnect switch.	ea	2.0	335.2	30,301.24	670.3	3,939.16	7,878.32	60,602.48	83,757.34	167,514.68	23,983.75	47,967.49	141,981.49	283,962.98
1327	3340.140	48 Vdc Distribution Switchboard (Telecommunications), 400 A, 14 kA IC	ea	2.0	97.8	8,837.92	195.5	1,148.93	2,297.86	17,675.83	37,964.36	75,928.72	9,720.24	19,440.49	57,671.45	115,342.90
1328	3340.150	Uninterruptible Power Supply (UPS), 10 kVA, 125 Vdc input and 600 Vac single phase bypass input, 120 Vac, 60 Hz output	ea	2.0	57.9	5,233.44	115.8	680.35	1,360.69	10,466.88	58,167.26	116,334.52	12,940.50	25,881.00	77,021.55	154,043.10
1328a	Added	UPS, 90 kVA, 125 Vdc input and 600 Vac 3 Ph bypass input, 120 Vac Output	ea	1.0	322.4	29,149.19	322.43	3,789.39	3,789.39	29,149.19	130,629.65	130,629.65	33,149.61	33,149.61	196,717.84	196,717.84
1329	3340.160	Uninterruptible Power Supply (UPS) Distribution Switchboard, 225 A, 120 Vac, single phase, 60 Hz	ea	2.0	57.9	5,233.44	115.8	680.35	1,360.69	10,466.88	24,266.70	48,533.39	6,115.45	12,230.90	36,295.93	72,591.86
1329a	Added	UPS Panelboard 100A 120 Vac for operation on 120 Vac 2 W system NEMA 12	ea	5.0	25.2	2,280.53	126.33	296.47	1,482.34	11,402.65	1,121.76	5,608.81	761.80	3,808.98	4,460.56	22,302.79
		Heavy Duty Safety Switch, 600 V, three phase, unfused, visible blade, NEMA 12 enclosure, size as follows:														
1330	3000.021	30 Amp	ea	153.0	7.5	677.82	1,147.1	88.12	13,481.85	103,706.57	286.71	43,866.51	217.02	33,204.04	1,269.67	194,258.98

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1331	3000.022	60 Amp	ea	4.0	8.2	737.53	32.6	95.88	383.52	2,950.12	314.43	1,257.73	236.64	946.55	1,384.48	5,537.92
1332	3000.023	100 Amp	ea	14.0	8.8	795.56	123.2	103.42	1,447.92	11,137.86	438.64	6,140.93	275.28	3,853.89	1,612.90	22,580.60
1333	3000.024	200 Amp	ea	10.0	10.2	920.25	101.8	119.63	1,196.33	9,202.53	709.46	7,094.60	359.11	3,591.05	2,108.45	21,084.51
1334	3000.025	400 Amp	ea	4.0	26.4	2,385.20	105.5	310.08	1,240.30	9,540.80	1,786.79	7,147.17	920.28	3,681.13	5,402.35	21,609.41
		Heavy Duty Safety Switch, 600 V, three phase, unfused, visible blade, NEMA 4X enclosure, size as follows:														
1335	3000.026	30 Amp	ea	65.0	8.4	761.44	547.5	98.99	6,434.15	49,493.74	633.82	41,198.07	306.55	19,925.99	1,800.80	117,051.99
1336	3000.027	60 Amp	ea	1.0	8.4	762.49	8.4	99.12	99.12	762.49	668.19	668.19	313.72	313.72	1,843.53	1,843.53
1337	3000.028	100 Amp	ea	1.0	9.5	856.76	9.5	111.38	111.38	856.76	1,545.39	1,545.39	512.47	512.47	3,026.00	3,026.00
1338	3000.029	200 Amp	ea	2.0	11.3	1,024.51	22.7	133.19	266.37	2,049.01	2,263.65	4,527.30	696.51	1,393.02	4,117.85	8,235.70
1339	3000.030	400 Amp	ea	2.0	26.4	2,388.67	52.8	310.53	621.05	4,777.33	2,771.56	5,543.12	1,119.36	2,238.72	6,590.11	13,180.21
1340	3000.031	Combination magnetic motor starter and visible blade disconnect, NEMA size 1, with electronic overload, NEMA 12 enclosure.	ea	3.0	13.9	1,259.26	41.8	163.70	491.11	3,777.78	1,778.27	5,334.82	653.96	1,961.87	3,855.19	11,565.58
1341	3000.032	Combination magnetic motor starter and visible blade disconnect, NEMA size 1, with electronic overload, NEMA 4X enclosure.	ea	12.0	16.8	1,520.47	201.8	197.66	2,371.93	18,245.63	2,472.85	29,674.18	855.18	10,262.16	5,046.16	60,553.90
1342	3000.033	Splitter box, 400 Amp, 600 V, three phase, three wire, NEMA 4X enclosure.	ea	2.0	14.7	1,330.89	29.4	173.02	346.03	2,661.77	2,972.16	5,944.33	911.15	1,822.30	5,387.22	10,774.43
		Industrial type electric Blower Unit Heater, 600 V, three phase, complete with built-in thermostat and controls, heating capacity as follows:														
1343	3000.034	2.0 kW	ea	9.0	8.2	744.77	74.1	96.82	871.38	6,702.96	1,990.56	17,915.08	575.78	5,182.06	3,407.94	30,671.49
1344	3000.035	2.5 kW	ea	4.0	8.4	762.49	33.7	99.12	396.49	3,049.95	2,365.15	9,460.60	655.36	2,621.45	3,882.12	15,528.49
1345	3000.036	3.0 kW	ea	14.0	9.2	829.43	128.4	107.83	1,509.56	11,611.98	1,048.40	14,677.54	406.00	5,683.94	2,391.64	33,483.02
1346	3000.037	5.0 kW	ea	7.0	8.6	781.10	60.5	101.54	710.80	5,467.73	734.38	5,140.68	331.42	2,319.94	1,948.45	13,639.15
1347	3000.038	7.5 kW	ea	11.0	10.3	930.86	113.3	121.01	1,331.14	10,239.50	1,135.31	12,488.40	447.33	4,920.67	2,634.52	28,979.70
1348	3000.039	10 kW	ea	27.0	11.3	1,017.73	304.0	132.30	3,572.22	27,478.65	1,032.05	27,865.43	446.96	12,067.92	2,629.05	70,984.23
1349	3000.040	15 kW	ea	13.0	12.3	1,111.63	159.9	144.51	1,878.66	14,451.21	1,276.03	16,588.34	518.15	6,735.91	3,050.32	39,654.12
1350	3000.041	Explosion-proof electric Blower Unit Heater, 3.5 kW, 600 V, three phase, complete with built-in thermostat and controls.	ea	8.0	16.8	1,520.64	134.6	197.68	1,581.47	12,165.13	4,139.50	33,116.00	1,190.76	9,526.10	7,048.59	56,388.69
1351	3000.042	Architectural sloped top baseboard electric heater, 2.5 kW, 208 V, single phase, with low-voltage relay.	ea	9.0	1.7	149.88	14.9	19.48	175.36	1,348.91	236.45	2,128.05	82.83	745.45	488.64	4,397.77
1352	3000.043	Convector heater, commercial type with sloped top, 5 kW, 600 V, three phase, with low-voltage relay.	ea	34.0	5.8	523.10	196.7	68.00	2,312.10	17,785.36	626.45	21,299.20	249.06	8,467.91	1,466.60	49,864.57
1353	3000.044	Forced-air heater, commercial type, 2.5 kW, 208 V, single phase, with low-voltage relay.	ea	11.0	3.1	284.33	34.6	36.96	406.59	3,127.59	302.02	3,322.24	127.63	1,403.90	750.94	8,260.31
1354	3000.045	Forced-air heater, commercial type, 5.0 kW, 600 V, three phase, with low-voltage relay.	ea	4.0	5.2	474.13	21.0	61.64	246.55	1,896.52	839.90	3,359.59	280.52	1,122.08	1,656.18	6,624.74
1355	3000.046	Electric infrared radiant heater, industrial type, NEMA 4X construction, 10 kW, 600 V, three phase, without controls.	ea	28.0	14.4	1,299.20	402.4	168.90	4,729.08	36,377.57	2,345.79	65,682.24	777.60	21,772.79	4,591.49	128,561.68
		Power outlet - interlocked receptacle and unfused switch, 600 V, three phase, three wire, NEMA 12 enclosure, size as follows:														
1356	3000.047	30 Amp	ea	1.0	9.5	853.98	9.5	111.02	111.02	853.98	1,167.34	1,167.34	435.71	435.71	2,568.04	2,568.04
1357	3000.048	60 Amp	ea	34.0	10.0	904.06	340.0	117.53	3,995.93	30,737.93	1,243.34	42,273.58	462.78	15,734.63	2,727.71	92,742.07
		Power outlet - interlocked receptacle and unfused switch, 600 V, three phase, three wire, NEMA 4X enclosure, size as follows:														
1358	3000.049	30 Amp	ea	8.0	10.0	904.07	80.0	117.53	940.23	7,232.54	2,069.81	16,558.51	629.18	5,033.42	3,720.59	29,764.70
1359	3000.050	60 Amp	ea	18.0	10.0	903.59	179.9	117.47	2,114.39	16,264.54	2,095.50	37,718.92	634.23	11,416.20	3,750.78	67,514.05
1360	3000.051	100 Amp	ea	4.0	11.0	997.82	44.2	129.72	518.87	3,991.27	4,389.31	17,557.24	1,118.18	4,472.73	6,635.03	26,540.10
1361	3000.052	200 Amp	ea	1.0	12.6	1,140.96	12.6	148.32	148.32	1,140.96	7,641.51	7,641.51	1,806.58	1,806.58	10,737.37	10,737.37
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, straight lengths, widths as follows:														
1362	3000.053	150 mm	m	136.0	2.7	246.72	371.1	32.07	4,361.97	33,553.59	87.37	11,882.89	75.57	10,277.92	441.74	60,076.37
1362a	Added	4" Channel Tray	m	4,572.0	1.2	104.29	5,273.96	13.56	61,983.62	476,797.06	42.67	195,068.75	33.10	151,326.69	193.61	885,176.12
1363	3000.054	300 mm	m	1,324.0	3.7	334.92	4,904.9	43.54	57,645.80	443,429.25	105.55	139,744.50	99.96	132,346.58	583.96	773,166.13
1364	3000.055	450 mm	m	949.0	3.5	315.83	3,315.3	41.06	38,963.94	299,722.60	108.00	102,490.72	95.97	91,073.25	560.85	532,250.51
1365	3000.056	600 mm	m	3,714.0	3.4	307.36	12,626.7	39.96	148,397.89	1,141,522.25	107.07	397,657.62	93.79	348,333.25	548.17	2,035,911.02
1366	3000.057	750 mm	m	1,967.0	3.4	305.86	6,654.7	39.76	78,210.47	601,618.98	107.50	211,450.75	93.52	183,959.80	546.64	1,075,240.00
		Horizontal 90 degree turn, 600mm radius, Cable Tray Section, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, horizontal 90 degree turns, 600mm radius, widths as follows:														
1367	3000.058	300 mm	ea	47.0	18.7	1,694.31	880.8	220.26	10,352.26	79,632.77	544.62	25,597.16	507.84	23,868.25	2,967.03	139,450.44
1368	3000.059	450 mm	ea	21.0	19.2	1,733.06	402.6	225.30	4,731.25	36,394.20	552.15	11,595.14	518.46	10,887.57	3,028.96	63,608.16
1369	3000.060	600 mm	ea	87.0	20.3	1,836.18	1,767.0	238.70	20,767.24	159,747.98	561.49	48,849.48	544.57	47,377.78	3,180.95	276,742.48
1370	3000.061	750 mm	ea	36.0	21.4	1,931.79	769.3	251.13	9,040.77	69,544.37	587.17	21,138.11	572.21	20,599.59	3,342.30	120,322.84
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, horizontal 90 degree turns, 900mm radius, widths as follows:														
1371	3000.062	150 mm	ea	3.0	17.7	1,598.91	53.1	207.86	623.58	4,796.74	567.33	1,701.98	489.98	1,469.94	2,864.08	8,592.23
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, horizontal 45 degree turns, 600mm radius, widths as follows:														
1372	3000.063	300 mm	ea	17.0	17.8	1,608.56	302.5	209.11	3,554.97	27,345.57	525.30	8,930.12	483.79	8,224.47	2,826.77	48,055.08
1373	3000.064	600 mm	ea	59.0	18.9	1,712.46	1,117.6	222.62	13,134.56	101,035.09	533.47	31,474.86	509.85	30,081.43	2,978.41	175,725.94
1374	3000.065	750 mm	ea	14.0	18.9	1,712.63	265.2	222.64	3,116.98	23,976.75	545.15	7,632.04	512.24	7,171.42	2,992.66	41,897.19
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, horizontal 45 degree turns, 900mm radius, widths as follows:														
1375	3000.066	150 mm	ea	4.0	17.2	1,552.70	68.7	201.85	807.40	6,210.80	533.47	2,133.89	472.31	1,889.24	2,760.33	11,041.33
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, vertical inside 90 degree turns, 600mm radius, widths as follows:														
1376	3000.067	300 mm	ea	1.0	15.1	1,365.55	15.1	177.52	177.52	1,365.55	386.39	386.39	398.72	398.72	2,328.17	2,328.17
1377	3000.068	600 mm	ea	6.0	16.7	1,507.88	100.1	196.02	1,176.14	9,047.26	394.56	2,367.36	433.81	2,602.84	2,532.27	15,193.60
1378	3000.069	750 mm	ea	8.0	17.7	1,603.65	141.9	208.47	1,667.79	12,829.19	398.06	3,184.49	457.02	3,656.16	2,667.21	21,337.64
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, vertical inside 90 degree turns, 900mm radius, widths as follows:														
1379	3000.070	150 mm	ea	2.0	14.1	1,271.28	28.1	165.27	330.53	2,542.55	435.42	870.83	386.42	772.85	2,258.38	4,516.76
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, vertical exterior 90 degree turns, 600mm radius, widths as follows:														
1380	3000.071	300 mm	ea	15.0	15.1	1,366.10	226.7	177.59	2,663.89	20,491.49	386.39	5,795.82	398.84	5,982.65	2,328.92	34,933.86
1381	3000.072	450 mm	ea	10.0	15.6	1,413.93	156.4	183.81	1,838.11	14,139.29	389.89	3,898.90	410.79	4,107.88	2,398.42	23,984.17

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D=C x 13%	LABOUR OH&P (Ext.) E=AxD	COST OF LABOUR (Ext.) F=AxC	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I=C+D+G+H	TOTAL PRICE J=AxI
1382	3000.073	600 mm	ea	7.0	16.7	1,507.94	116.8	196.03	1,372.23	10,555.59	394.56	2,761.92	433.82	3,036.76	2,532.36	17,726.50
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, vertical exterior 90 degree turns, 900mm radius, widths as follows:														
1383	3000.074	150 mm	ea	1.0	34.1	1,271.27	34.1	165.27	165.27	1,271.27	435.42	435.42	386.43	386.43	2,258.39	2,258.39
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, riser sections, widths as follows:														
1384	3000.075	150mm	ea	2.0	9.7	874.78	19.4	113.72	227.44	1,749.55	315.03	630.06	269.01	538.01	1,572.53	3,145.06
1385	3000.076	300mm	ea	94.0	9.7	874.38	909.1	113.67	10,684.95	82,193.96	312.85	29,407.51	268.48	25,236.81	1,569.37	147,521.24
1386	3000.077	450mm	ea	54.0	9.7	874.34	522.3	113.66	6,137.90	47,214.59	312.85	16,893.68	268.47	14,497.24	1,569.32	84,743.41
1387	3000.078	600mm	ea	254.0	9.7	874.36	2,456.6	113.67	28,871.38	222,087.55	312.85	79,462.85	268.47	68,191.76	1,569.34	398,613.55
1388	3000.079	750mm	ea	46.0	9.7	874.36	444.9	113.67	5,228.67	40,220.50	312.85	14,390.91	268.47	12,349.67	1,569.34	72,189.75
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, T-section, 600mm radius, 300mm main, tap off as follows:														
1389	3000.080	300 mm	ea	12.0	31.8	2,870.53	381.0	373.17	4,478.03	34,446.40	917.92	11,015.07	859.42	10,313.03	5,021.04	60,252.54
1390	3000.081	600 mm	ea	1.0	31.7	2,869.72	31.7	373.06	373.06	2,869.72	975.89	975.89	870.90	870.90	5,089.58	5,089.58
1391	3000.082	750 mm	ea	1.0	32.5	2,936.27	32.5	381.72	381.72	2,936.27	1,927.27	1,927.27	1,078.08	1,078.08	6,323.34	6,323.34
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, T-section, 600mm radius, 450mm main, tap off as follows:														
1392	3000.083	300mm	ea	4.0	32.8	2,966.08	131.2	385.59	1,542.36	11,864.30	974.73	3,898.90	893.31	3,573.23	5,219.70	20,878.78
1393	3000.084	450mm	ea	4.0	32.8	2,966.08	131.2	385.59	1,542.36	11,864.30	974.73	3,898.90	893.31	3,573.23	5,219.70	20,878.78
1394	3000.085	600mm	ea	1.0	32.8	2,965.38	32.8	385.50	385.50	2,965.38	980.56	980.56	894.32	894.32	5,225.76	5,225.76
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, T-section, 600mm radius, 600mm main, tap off as follows:														
1395	3000.086	300mm	ea	15.0	33.9	3,060.39	507.8	397.85	5,967.76	45,905.88	975.89	14,638.39	915.71	13,735.65	5,349.85	80,247.68
1396	3000.087	450mm	ea	10.0	33.9	3,060.21	338.5	397.83	3,978.27	30,602.08	982.90	9,828.96	917.08	9,170.75	5,358.01	53,580.06
1397	3000.088	600mm	ea	62.0	33.9	3,060.30	2,098.7	397.84	24,666.03	189,738.69	987.57	61,229.08	918.04	56,918.39	5,363.74	332,552.18
1398	3000.089	750mm	ea	2.0	33.9	3,060.35	67.7	397.84	795.69	6,120.69	994.57	1,989.14	919.46	1,838.93	5,372.22	10,744.45
		Cable Tray, Ladder type, Hot Dipped Galvanized Steel, CSA Load Class D, 100 mm cable depth, T-section, 600mm radius, 750mm main, tap off as follows:														
1399	3000.090	300mm	ea	32.0	34.9	3,155.96	1,117.1	410.27	13,128.79	100,990.72	980.56	31,377.98	939.11	30,051.50	5,485.91	175,548.99
1400	3000.091	450mm	ea	5.0	34.9	3,155.87	174.5	410.26	2,051.31	15,779.33	988.73	4,943.67	940.73	4,703.66	5,495.59	27,477.97
1401	3000.092	600mm	ea	59.0	34.9	3,155.97	2,059.6	410.28	24,206.28	186,202.13	993.40	58,610.74	941.70	55,560.09	5,501.34	324,579.24
1402	3000.093	750mm	ea	13.0	34.9	3,156.16	453.8	410.30	5,333.92	41,030.13	1,000.41	13,005.28	943.15	12,260.98	5,510.02	71,630.31
		Teck 90 1000 V Power Cable, Class B stranded copper conductors insulated with XLPE type RW90, complete with bare grounding conductor to CSA C22.2 No.131, interlocking aluminum armour, and low temperature (-40°C) flame retardant and sunlight resistant PVC outer jacket, number of conductors and conductor sizes as follows:														
1403	3000.094	1C #4/0 AWG	m	235.0	0.4	38.96	101.3	5.07	1,190.38	9,156.77	34.94	8,211.74	16.19	3,805.21	95.17	22,364.10
1404	3000.095	1C #500 kcmil	m	315.0	0.5	47.96	167.1	6.23	1,961.90	15,106.95	61.72	19,440.64	23.70	7,464.26	139.61	43,975.75
1405	3000.096	1C #750 kcmil	m	440.0	0.7	62.26	303.0	8.09	3,561.23	27,394.08	95.89	42,192.31	33.94	14,932.40	200.18	88,080.02
1406	3000.097	2C #12 AWG	m	14,265.0	0.2	22.42	3,537.0	2.91	41,569.26	319,763.53	4.04	57,634.55	6.08	86,752.46	35.45	505,719.79
1407	3000.098	2C #10 AWG	m	1,840.0	0.3	29.07	591.7	3.78	6,954.49	53,496.10	5.22	9,607.68	7.88	14,506.65	45.96	84,564.93
1408	3000.099	2C #8 AWG	m	1,615.0	0.4	32.16	574.4	4.18	6,751.02	51,930.92	7.12	11,493.76	8.99	14,518.52	52.44	84,694.22
1409	3000.100	2C #6 AWG	m	605.0	0.4	33.69	225.5	4.38	2,649.66	20,381.98	11.19	6,770.43	10.17	6,153.13	59.43	35,955.20
1410	3000.101	2C #4 AWG	m	1.0	0.4	33.27	0.4	4.33	4.33	33.27	20.59	20.59	11.97	11.97	70.15	70.15
1411	3000.102	2C #1 AWG	m	650.0	0.4	38.81	279.0	5.05	3,279.36	25,225.85	21.57	14,020.96	13.46	8,751.22	78.89	51,277.39
1412	3000.103	2C #1/0 AWG	m	30.0	0.4	36.55	12.1	4.75	142.56	1,096.59	31.71	951.18	14.97	449.21	87.98	2,639.54
1413	3000.104	2C #2/0 AWG	m	751.0	0.4	37.93	315.1	4.93	3,703.07	28,485.13	30.33	22,776.80	15.02	11,279.97	88.21	66,244.97
1414	3000.105	2C #4/0 AWG	m	136.0	0.5	43.25	65.1	5.62	764.69	5,882.24	47.89	6,512.58	19.81	2,693.57	116.57	15,853.08
1415	3000.106	3C #12 AWG	m	31,117.0	0.2	20.09	6,914.1	2.61	81,259.68	625,074.47	4.13	128,427.36	5.55	172,757.44	32.38	1,007,518.95
1416	3000.107	3C #10 AWG	m	7,140.0	0.3	27.01	2,133.1	3.51	25,070.09	192,846.86	5.63	40,163.96	7.48	53,407.88	43.63	311,488.79
1417	3000.108	3C #8 AWG	m	2,430.0	0.3	29.20	784.8	3.80	9,224.06	70,954.28	8.35	20,299.38	8.54	20,762.09	49.89	121,239.80
1418	3000.109	3C #6 AWG	m	1,340.0	0.3	28.71	425.5	3.73	5,001.04	38,469.55	12.36	16,558.49	9.23	12,374.57	54.03	72,403.65
1419	3000.110	3C #4 AWG	m	640.0	0.4	34.24	242.4	4.45	2,848.62	21,912.49	18.10	11,582.44	11.69	7,481.59	68.48	43,825.15
1420	3000.111	3C #2 AWG	m	1,840.0	0.5	43.80	1,860.3	5.69	21,863.18	168,178.32	24.59	94,423.52	15.24	58,534.27	89.32	342,999.29
1421	3000.112	3C #1 AWG	m	260.0	0.4	35.63	102.5	4.63	1,204.44	9,264.91	32.93	8,560.81	15.00	3,900.90	88.20	22,931.05
1421a	Added	3C #1/0 AWG	m	245.0	0.4	38.61	104.64	5.02	1,229.85	9,460.39	37.17	9,107.77	16.56	4,056.96	97.37	23,854.97
1422	3000.113	3C #2/0 AWG	m	2,095.0	0.5	48.34	1,120.3	6.28	13,166.64	101,281.84	39.18	82,089.64	19.25	40,328.49	113.06	236,867.63
1423	3000.114	3C #4/0 AWG	m	2,205.0	0.5	49.08	1,197.1	6.38	14,069.02	108,223.28	59.89	132,052.66	23.59	52,019.68	138.94	306,364.62
1424	3000.115	3C #250 kcmil	m	21.0	0.5	48.26	11.2	6.27	131.74	1,013.42	82.54	1,733.40	27.96	587.15	165.03	3,465.71
1425	3000.116	3C #500 kcmil	m	3,630.0	0.9	83.88	3,367.9	10.90	39,582.26	304,479.13	156.25	567,174.66	51.17	185,743.97	302.20	1,096,980.04
1425a	Added	3C #500 kcmil Tray Cable	m	700.0	1.0	87.62	678.42	11.39	7,973.90	61,333.07	148.11	103,675.57	50.41	35,286.75	297.53	208,268.69
1426	3000.117	4C #12 AWG	m	1,430.0	0.4	32.99	521.9	4.29	6,133.21	47,178.54	6.22	8,898.31	9.01	12,879.12	52.51	75,089.17
1427	3000.118	4C #10 AWG	m	890.0	0.3	25.63	252.4	3.33	2,965.77	22,813.62	7.06	6,279.35	7.44	6,625.74	43.47	38,684.48
1428	3000.119	4C #8 AWG	m	171.0	0.3	29.94	56.6	3.89	665.57	5,119.76	9.59	1,640.69	8.97	1,533.53	52.40	8,959.55
1429	3000.120	4C #6 AWG	m	245.0	0.6	51.92	140.7	6.75	1,653.74	12,721.06	19.24	4,712.66	16.08	3,938.43	93.98	23,025.89
1430	3000.121	4C #4 AWG	m	80.0	0.4	35.58	11.8	4.63	138.77	1,067.49	26.21	786.45	13.64	409.20	80.06	2,401.91
1430a	Added	4C #3 AWG	m	11.0	0.4	33.65	4.09	4.37	48.12	370.16	29.26	321.89	13.80	151.80	81.09	891.97
1431	3000.122	4C #2 AWG	m	620.0	0.4	39.89	273.6	5.19	3,215.70	24,732.31	29.06	18,016.32	15.23	9,439.60	89.36	55,403.43
1432	3000.123	4C #2/0 AWG	m	1,876.0	0.6	50.75	1,053.0	6.60	12,376.18	95,201.37	48.45	90,890.43	21.68	40,672.91	127.47	239,140.29
1433	3000.124	4C #4/0 AWG	m	80.0	0.6	55.90	49.5	7.27	581.40	4,472.34	88.29	7,063.03	30.91	2,473.04	182.37	14,589.81
		Teck 90 1000 V Power Cable Terminations (includes Glands and Termination kit) per Cable Type and Size														
1434	3000.125	1C #4/0 AWG	ea	20.0	3.2	289.88	64.3	37.68	753.70	5,797.68	119.18	2,383.70	92.12	1,842.44	538.88	10,777.52
1435	3000.126	1C #250 kcmil	ea	12.0	4.5	408.62	54.2	53.12	637.45	4,903.48	38.66	463.95	103.82	1,245.79	604.22	7,250.67
1436	3000.127	1C #500 kcmil	ea	32.0	4.7	422.01	149.4	54.86	1,755.54	13,504.34	80.50	2,576.08	115.39	3,692.35	672.76	21,528.18
1437	3000.128	1C #750 kcmil	ea	38.0	5.3	483.25	203.3	62.82	2,387.25	18,363.46	105.33	4,002.72	134.78	5,121.52	786.18	29,874.95
1438	3000.129	2C #12 AWG	ea	644.0	2.6	232.88	1,658.9	30.27	19,496.64	149,976.28	20.95	13,494.16	58.95	37,962.89	343.06	220,927.99
1439	3000.130	2C #10 AWG	ea	54.0	2.6	232.91	139.1	30.28	1,635.00	12,576.89	19.79	1,068.46	58.72	3,170.87	341.69	18,451.22
1440	3000.131	2C #8 AWG	ea	36.0	2.6	234.79	93.5	30.52	1,098.84	8,452.51	16.87	607.25	58.58	2,108.72	340.76	12,267.31
1441	3000.132	2C #6 AWG	ea	12.0	3.0	272.65	36.2	35.44	425.33	3,271.77	26.21	314.48	69.35	832.23	403.65	4,843.81
1442	3000.133	2C #4 AWG	ea	1.0	3.8	339.66	3.8	44.16	44.16	339.66	26.21	26.21	85.10	85.10	495.12	495.12
1443	3000.134	2C #1 AWG	ea	14.0	3.1	278.85	43.2	36.25	507.51	3,903.93	35.41	495.77	72.66	1,017.29	423.18	5,924.49

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1444	3000.135	2C #1/0 AWG	ea	6.0	4.4	401.81	26.7	52.23	313.41	2,410.84	49.58	297.46	104.41	626.46	608.03	3,648.17
1445	3000.136	2C #2/0 AWG	ea	12.0	4.6	416.83	55.3	54.19	650.25	5,001.92	49.58	594.92	107.94	1,295.31	628.53	7,542.40
1446	3000.137	2C #4/0 AWG	ea	18.0	5.1	456.80	91.0	59.38	1,068.91	8,222.39	49.58	892.38	117.34	2,112.04	683.10	12,295.72
1447	3000.138	3C #12 AWG	ea	966.0	2.8	254.00	2,714.1	33.02	31,897.89	245,368.36	20.95	20,241.25	63.91	61,740.26	371.89	359,247.76
1448	3000.139	3C #10 AWG	ea	244.0	3.1	284.10	766.8	36.93	9,011.75	69,321.17	27.37	6,679.26	72.28	17,636.21	420.69	102,648.39
1449	3000.140	3C #8 AWG	ea	96.0	3.4	304.99	323.9	39.65	3,806.34	29,279.50	27.37	2,627.91	77.19	7,410.18	449.21	43,123.92
1450	3000.141	3C #6 AWG	ea	72.0	3.6	322.04	256.5	41.86	3,014.25	23,186.55	27.37	1,970.93	81.19	5,845.98	472.47	34,017.71
1451	3000.142	3C #4 AWG	ea	22.0	4.1	373.30	90.8	48.53	1,067.65	8,212.69	32.24	709.32	94.22	2,072.91	548.30	12,062.57
1452	3000.143	3C #2 AWG	ea	128.0	5.0	451.07	638.6	58.64	7,505.80	57,736.91	50.74	6,495.24	116.22	14,876.69	676.68	86,614.63
1453	3000.144	3C #1 AWG	ea	8.0	5.2	473.61	41.9	61.57	492.55	3,788.86	50.74	405.95	121.52	972.17	707.44	5,659.53
1453a	Added	3C #1/0 AWG	ea	14.0	6.1	555.53	86.03	72.22	1,011.06	7,777.36	47.37	663.19	140.09	1,961.31	815.21	11,412.91
1454	3000.145	3C #2/0 AWG	ea	42.0	5.9	537.64	249.8	69.89	2,935.49	22,580.71	76.64	3,218.69	141.78	5,954.80	825.95	34,689.70
1455	3000.146	3C #4/0 AWG	ea	46.0	6.6	592.66	301.6	77.05	3,544.11	27,262.37	76.64	3,525.24	154.71	7,116.79	901.05	41,448.50
1456	3000.147	3C #250 kcmil	ea	4.0	7.3	656.09	29.0	85.29	341.17	2,624.35	92.49	369.95	172.81	691.24	1,006.68	4,026.71
1457	3000.148	3C #500 kcmil	ea	118.0	10.1	912.62	1,191.2	118.64	13,999.64	107,689.52	151.42	17,867.80	244.96	28,905.86	1,427.65	168,462.82
1457a	Added	3C #500 kcmil - Tray Cable	ea	8.0	7.5	680.87	60.25	88.51	708.10	5,446.93	16.17	129.34	163.27	1,306.14	948.81	7,590.51
1458	3000.149	4C #12 AWG	ea	64.0	3.1	282.21	199.8	36.69	2,347.96	18,061.25	22.12	1,415.74	70.78	4,529.68	411.79	26,354.64
1459	3000.150	4C #10 AWG	ea	66.0	3.5	314.45	229.6	40.88	2,697.96	20,753.51	28.54	1,883.73	79.65	5,256.62	463.51	30,591.81
1460	3000.151	4C #8 AWG	ea	8.0	3.8	340.87	30.2	44.31	354.50	2,726.93	28.54	228.33	85.86	686.85	499.58	3,996.61
1461	3000.152	4C #6 AWG	ea	26.0	4.3	384.71	110.6	50.01	1,300.32	10,002.44	33.41	868.64	97.14	2,525.60	565.27	14,696.99
1462	3000.153	4C #4 AWG	ea	4.0	4.9	445.71	19.7	57.94	231.77	1,782.83	51.91	207.65	115.20	460.81	670.76	2,683.05
1462a	Added	4C #3 AWG	ea	4.0	5.3	483.49	21.39	62.85	251.41	1,933.94	51.91	207.65	124.08	496.30	722.33	2,889.30
1463	3000.154	4C #2 AWG	ea	32.0	5.7	517.45	183.2	67.27	2,152.60	16,558.45	51.91	1,661.16	132.06	4,225.91	768.69	24,598.12
1464	3000.155	4C #2/0 AWG	ea	36.0	7.4	670.45	267.0	87.16	3,137.70	24,136.18	91.78	3,303.93	176.04	6,337.52	1,025.43	36,915.34
1465	3000.156	4C #4/0 AWG	ea	2.0	8.0	720.90	16.0	93.72	187.43	1,441.79	93.66	187.31	188.28	376.56	1,096.55	2,193.09
1466	3000.157	AC-90 cable, 2C #12 AWG, 600 V. XLPE insulation, copper conductors, interlocking aluminum armour	m	2,692.0	0.2	22.04	656.4	2.87	7,714.50	59,342.30	2.17	5,854.15	5.62	15,124.91	32.70	88,035.86
1467	3000.158	3/C # 1 AWG, 25 kV Shielded, Armoured Power Cable, Type HVTECK, 100% insulation.	m	231.0	0.7	58.91	150.5	7.66	1,769.08	13,608.31	80.50	18,595.43	30.05	6,941.89	177.12	40,914.71
1468	3000.159	3/C # 1 AWG, 25 kV Shielded, Armoured Power Cable, Type HVTECK, 100% insulation terminations including glands, and termination kits	ea	2.0	43.1	3,900.47	86.3	507.06	1,014.12	7,800.93	4,341.50	8,682.99	1,790.72	3,581.44	10,539.74	21,079.49
1469	3000.160	Mineral Insulated Power Cable, 2-hour fire rated, 1/C # 250 kcmil solid copper conductor, 600 V magnesium oxide insulation, seamless copper sheath.	m	736.0	1.1	99.79	812.4	12.97	9,547.74	73,444.15	172.10	126,668.49	58.10	42,762.09	342.97	252,422.46
1470	3000.161	Mineral Insulated Power Cable, 2-hour fire rated, 1/C # 250 kcmil Termination including glands and termination kit	ea	12.0	8.2	745.50	99.0	96.92	1,162.99	8,946.05	236.61	2,839.38	222.84	2,674.11	1,301.88	15,622.52
1470a	Added	Free Issue Connectors to CH0030 Contractor	ea	581.0	0.1	6.53	41.97	0.85	493.27	3,794.42	17.08	9,922.35	4.97	2,889.37	29.43	17,099.41
		Teck 90 600 V Control Cable, Class B stranded copper conductors insulated with XLPE type RW90, overall shield with tinned copper drain wire, interlocking aluminum armour, and low temperature (-40°C) flame retardant and sunlight resistant PVC outer jacket (grey in colour), to CSA C22.2 No.131 and CSA 22.2 No. 239, number of conductors and conductor sizes as follows:														
1471	3000.162	4C # 14 AWG	m	12,076.0	0.2	22.22	2,967.6	2.89	34,877.17	268,285.95	6.84	82,615.99	6.60	79,683.88	38.54	465,462.99
1472	3000.163	4C # 12 AWG	m	1,605.0	0.3	29.51	523.8	3.84	6,156.28	47,355.99	8.66	13,905.43	8.68	13,928.88	50.68	81,346.58
1473	3000.164	4C # 8 AWG	m	1,915.0	0.4	37.53	794.9	4.88	9,342.64	71,866.49	15.70	30,062.46	11.98	22,942.04	70.09	134,213.63
1474	3000.165	5C # 16 AWG	m	181.0	0.2	17.36	34.8	2.26	408.39	3,141.44	7.96	1,440.47	5.68	1,028.28	33.25	6,018.58
1475	3000.166	8C # 14 AWG	m	11,825.0	0.3	28.89	3,779.1	3.76	44,414.87	341,652.46	11.15	131,888.12	9.04	106,845.85	52.84	624,801.25
1476	3000.167	12C # 14 AWG	m	4,800.0	0.4	33.11	1,757.8	4.30	20,659.46	158,918.96	14.03	67,348.65	10.61	50,907.32	62.05	297,834.39
1477	3000.168	20C # 14 AWG	m	4,140.0	0.4	37.85	1,733.4	4.92	20,372.37	156,710.51	18.11	74,956.80	12.54	51,920.01	73.42	303,959.68
1478	3000.169	30C # 14 AWG	m	495.0	0.6	57.79	316.4	7.51	3,718.57	28,604.35	29.82	14,759.52	19.58	9,693.91	114.70	56,776.35
1479	3000.170	40C # 14 AWG	m	470.0	0.7	59.65	310.1	7.76	3,644.85	28,037.34	37.95	17,838.68	21.66	10,180.57	127.02	59,701.44
		Teck 90 600 V Control Cable Terminations for the , number of conductors and conductor sizes as follows: (includes Cable Glands, and termination kits)														
1480	3000.171	4C # 14 AWG	ea	348.0	3.3	300.99	1,158.6	39.13	13,616.64	104,743.56	22.12	7,698.11	75.19	26,166.10	437.43	152,224.44
1481	3000.172	4C # 12 AWG	ea	58.0	3.8	339.15	217.6	44.09	2,557.20	19,670.79	22.12	1,283.02	84.16	4,881.22	489.52	28,392.24
1482	3000.173	4C # 8 AWG	ea	54.0	4.4	395.88	236.5	51.46	2,779.06	21,377.37	28.54	1,541.23	98.78	5,334.28	574.67	31,031.94
1483	3000.174	5C # 16 AWG	ea	8.0	3.4	306.04	27.1	39.78	318.28	2,448.28	23.29	186.31	76.61	612.90	445.72	3,565.76
1484	3000.175	8C # 14 AWG	ea	236.0	5.1	460.15	1,201.2	59.82	14,117.37	108,594.80	33.21	7,837.72	114.83	27,099.31	668.00	157,649.15
1485	3000.176	12C # 14 AWG	ea	104.0	6.6	595.33	684.8	77.39	8,048.81	61,933.95	37.88	3,939.52	147.54	15,343.82	858.14	89,246.11
1486	3000.177	20C # 14 AWG	ea	79.0	10.2	924.27	807.7	120.15	9,492.23	73,017.15	52.09	4,114.83	227.70	17,988.52	1,324.21	104,612.74
1487	3000.178	30C # 14 AWG	ea	9.0	14.5	1,310.55	130.5	170.37	1,533.35	11,794.99	82.26	740.36	324.56	2,921.05	1,887.75	16,989.74
1488	3000.179	40C # 14 AWG	ea	14.0	19.5	1,765.90	273.5	229.57	3,213.94	24,722.61	93.94	1,315.10	433.92	6,074.94	2,523.33	35,326.59
		Armoured Control and Instrumentation Cable (ACIC) 600 V, twisted pairs/triads of stranded tinned copper conductors with PVC insulation, individual and overall shield with tinned copper drain wire, interlocking aluminum armour, and low temperature (-40°C) flame retardant and sunlight resistant PVC outer jacket (grey in colour), to CSA C22.2 No.131 and CSA 22.2 No. 239, number of pairs/triads and conductor sizes as follows:														
1489	3000.180	2P # 16 AWG	m	19,545.0	0.2	19.51	4,216.9	2.54	49,560.58	381,235.24	8.40	164,269.20	6.28	122,667.51	36.72	717,732.53
1490	3000.181	4P # 16 AWG	m	915.0	0.2	21.03	212.8	2.73	2,501.51	19,242.40	12.26	11,234.14	7.41	6,779.94	43.43	39,737.99
1491	3000.182	2T # 16 AWG	m	880.0	0.2	21.03	204.7	2.73	2,405.45	18,503.49	10.27	9,037.03	7.01	6,167.99	41.04	36,113.97
1492	3000.183	4T # 16 AWG	m	140.0	0.3	25.19	39.0	3.27	458.49	3,526.86	16.42	2,298.78	9.23	1,291.67	54.11	7,575.80
1493	3000.184	3P # 22 AWG	m	1.0	0.3	24.96	0.3	3.24	3.24	24.96	7.23	7.23	7.32	7.32	42.75	42.75
1493a	Added	4P # 20 AWG	m	150.0	0.2	16.65	27.63	2.17	324.76	2,498.18	10.82	1,622.41	6.09	913.74	35.73	5,359.10
1494	3000.185	4P # 18 AWG	m	1.0	0.3	24.96	0.3	3.24	3.24	24.96	7.23	7.23	7.32	7.32	42.75	42.75
1495	3000.186	6P # 18 AWG	m	1.0	0.3	22.18	0.3	2.88	2.88	22.18	9.16	9.16	7.06	7.06	41.29	41.29
1495a	Added	18P # 18 AWG	m	830.0	0.2	16.67	153.07	2.17	1,799.00	13,838.44	19.65	16,311.96	7.88	6,536.26	46.37	38,485.66
1495b	Added	12P #14 AWG	m	2,625.0	0.5	44.91	1,303.93	5.84	15,324.83	117,883.28	33.25	87,289.32	17.25	45,277.89	101.25	265,775.32
		Armoured Control and Instrumentation Cable (ACIC) 600 V Terminations including Glands and Terminations kits, number of pairs/triads and conductor sizes as follows:														
1496	3000.187	2P # 16 AWG	ea	724.0	4.7	428.86	3,434.5	55.75	40,364.64	310,497.24	30.56	22,124.62	106.94	77,425.69	622.12	450,412.20
1497	3000.188	4P # 16 AWG	ea	17.0	8.9	800.98	150.6	104.13	1,770.16	13,616.64	49.06	834.06	198.12	3,368.07	1,152.29	19,588.89
1498	3000.189	2T # 16 AWG	ea	16.0	6.5	583.13	103.2	75.81	1,212.91	9,330.06	34.92	558.69	144.07	2,305.18	837.93	13,406.84
1499	3000.190	4T # 16 AWG	ea	8.0	9.4	851.39	75.3	110.68	885.44	6,811.08	57.39	459.11	211.64	1,693.14	1,231.10	9,848.77

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1500	3000.191	3P # 22 AWG	ea	1.0	7.1	641.88	7.1	83.44	83.44	641.88	39.63	39.63	158.83	158.83	923.78	923.78
1500a	Added	4P # 20 AWG	ea	14.0	4.5	404.71	62.67	52.61	736.58	5,665.98	27.96	391.41	100.74	1,410.39	586.03	8,204.35
1501	3000.192	4P # 18 AWG	ea	1.0	8.8	792.99	8.8	103.09	103.09	792.99	46.40	46.40	195.69	195.69	1,138.17	1,138.17
1502	3000.193	6P # 18 AWG	ea	1.0	12.1	1,096.59	12.1	142.56	142.56	1,096.59	59.36	59.36	269.67	269.67	1,568.17	1,568.17
1502a	Added	8P # 18 AWG	ea	46.0	13.8	1,250.15	636.10	162.52	7,475.88	57,506.78	75.22	3,460.10	308.95	14,211.55	1,796.83	82,654.31
1502b	Added	12P # 14 AWG	ea	40.0	21.3	1,922.68	850.69	249.95	9,997.94	76,907.22	117.75	4,709.96	475.56	19,022.57	2,765.94	110,637.69
1503	3000.194	Armoured CAT6 ethernet cable, 4 twisted pairs of 23 AWG copper conductors with polyolefin insulation, overall shielded, PVC inner jacket, interlocking aluminum armour, and low temperature (-40°C) PVC outer jacket (yellow or blue in colour as applicable to indicate data or telephone cable).	m	8,410.0	0.2	16.67	1,551.0	2.17	18,228.96	140,222.76	66.82	561,986.69	17.37	146,096.83	103.04	866,535.25
1504	3000.195	Armoured CAT6 ethernet cable, 4 twisted pairs of 23 AWG terminations	ea	506.0	3.1	283.16	1,584.8	36.81	18,626.17	143,278.25	27.83	14,083.55	70.09	35,466.18	417.89	211,454.16
1505	3000.196	Low voltage control cable, CSA type LVT, 300 V, 4C 18 AWG copper conductors with PVC insulation, overall shield, unarmoured, PVC outer jacket (grey in colour), to CSA C22.2 No.35.	m	36.0	0.6	50.02	19.9	6.50	234.11	1,800.85	0.89	32.18	11.94	429.71	69.36	2,496.85
1505a	Added	2C # 22 OS Shielded LVT PVC Outer Jacket 300 V	m	176.0	0.0	3.95	7.68	0.51	90.29	694.56	0.24	41.91	0.98	171.66	5.67	998.42
1505b	Added	4C # 22 OS Shielded LVT PVC Outer Jacket 300 V	m	30.0	0.1	5.13	1.70	0.67	20.00	153.88	0.45	13.59	1.30	38.90	7.55	226.37
1506	3000.197	Low voltage control cable, CSA type LVT, 300 V, 4C 18 AWG terminations	ea	14.0	0.7	60.70	9.4	7.89	110.48	849.83	0.00	0.00	14.27	199.72	82.86	1,160.03
1506a	Added	2C # 22 OS Shielded LVT PVC Outer Jacket 300 V Terminations	ea	66.0	0.3	26.55	19.38	3.45	227.80	1,752.34	0.00	0.00	6.24	411.82	36.24	2,391.97
1506b	Added	4C # 22 OS Shielded LVT PVC Outer Jacket 300 V	ea	12.0	0.6	53.14	7.05	6.91	82.90	637.72	0.00	0.00	12.49	149.87	72.54	870.50
1507	3000.198	Fibre Optical OM3 multi-mode cable, 50/125 µm core/cladding, 12 x 900 µm tight buffered cables, interlocking steel armour, FT-4 PVC outer jacket (orange in colour).	m	3,020.0	0.2	17.61	588.2	2.29	6,913.22	53,178.62	11.00	33,221.23	6.35	19,186.04	37.25	112,499.12
1507a	Added	Armored 12C SM FO FT-4 PVC outer jacket Orange in colour	m	2,570.0	0.2	19.47	553.61	2.53	6,506.45	50,049.65	8.07	20,739.43	6.20	15,937.79	36.28	93,233.33
1508	3000.199	Fibre Optical OM3 multi-mode cable Terminations	ea	42.0	13.6	1,228.50	570.7	159.70	6,707.59	51,596.81	978.84	41,111.10	293.98	12,346.96	2,661.01	111,762.46
1508a	Added	Armored 12C SM FO FT-4 PVC outer jacket Orange in colour - Terminations	ea	38.0	13.6	1,228.52	516.38	159.71	6,068.87	46,683.63	11.61	441.37	291.06	11,060.20	1,690.90	64,254.07
1509	3290.020	Intake MCC Copper Busway assembly (between 3290-MCC-82-A001/B001), low impedance compact type, totally enclosed, sprinkler-proof, 1200 A, 600 V, 3 phase, 3 wire, dedicated internal ground bus	each	1.0	731.7	66,146.45	731.7	8,599.04	8,599.04	66,146.45	61,392.51	61,392.51	27,905.28	27,905.28	164,043.28	164,043.28
1510	3000.200	Copper Busway assembly (between 3433-SWG-82-A002 and 3340-SWG-82-0001), low impedance compact type, totally enclosed, sprinkler-proof, 1600 A, 600 V, 3 phase, 3 wire, dedicated internal ground bus	each	1.0	216.5	19,576.51	216.5	2,544.95	2,544.95	19,576.51	10,757.00	10,757.00	6,766.42	6,766.42	39,644.88	39,644.88
1511	3000.201	Copper Busway assembly (between 3433-SWG-82-B001 and 3340-SWG-82-0001), low impedance compact type, totally enclosed, sprinkler-proof, 1600 A, 600 V, 3 phase, 3 wire, dedicated internal ground bus	each	1.0	426.6	38,567.99	426.6	5,013.84	5,013.84	38,567.99	34,100.80	34,100.80	15,929.42	15,929.42	93,612.05	93,612.05
1512	3000.202	Copper Busway assembly (between 3340-SWG-82-0001 and 3340-T-81-0001), low impedance compact type, totally enclosed, sprinkler-proof, 1600 A, 600 V, 3 phase, 3 wire, dedicated internal ground bus	each	1.0	130.4	11,792.20	130.4	1,532.99	1,532.99	11,792.20	7,112.92	7,112.92	4,203.35	4,203.35	24,641.46	24,641.46
1513	3433.030	Copper Busway assembly (between 3433-SWG-82-A001/A002), low impedance compact type, totally enclosed, sprinkler-proof, 3200 A, 600 V, 3 phase, 3 wire, dedicated internal ground bus	each	1.0	701.9	63,454.18	701.9	8,249.04	8,249.04	63,454.18	67,820.09	67,820.09	28,566.60	28,566.60	168,089.91	168,089.91
1514	3433.040	Copper Busway assembly (between 3433-SWG-82-B001/B002), low impedance compact type, totally enclosed, sprinkler-proof, 3200 A, 600 V, 3 phase, 3 wire, dedicated internal ground bus	each	1.0	716.9	64,810.02	716.9	8,425.30	8,425.30	64,810.02	71,067.13	71,067.13	29,538.96	29,538.96	173,841.41	173,841.41
1515	3000.203	Fluorescent Light fixture, type F1 , Suspended or Ceiling Mounted, fibreglass reinforced polyester housing, enclosed and gasketted polycarbonate lens, suitable for damp or wet locations, 2 x 32 W lamps, premium electronic ballast, 347 V	ea	285.0	11.1	999.26	3,150.1	129.90	37,022.74	284,790.32	284.34	81,037.31	292.09	83,244.82	1,705.60	486,095.19
1516	3000.204	Fluorescent Light fixture, type F2, Wall Mounted, fibreglass reinforced polyester housing, enclosed and gasketted polycarbonate lens, suitable for damp or wet locations, 2 x 32 W lamps, premium electronic ballast, 347 V	ea	84.0	12.8	1,155.15	1,073.3	150.17	12,614.25	97,032.72	302.51	25,410.52	332.38	27,919.92	1,940.21	162,977.41
1517	3000.205	Fluorescent Light fixture, type F3, Suspended or Ceiling Mounted, polyester enamel steel housing, one-piece prismatic wrap-around lens, for dry locations only, 2 x 32 W lamps, premium electronic ballast, 347 V.	ea	44.0	10.7	966.09	470.2	125.59	5,526.03	42,507.96	320.16	14,086.88	291.50	12,826.04	1,703.34	74,946.91
1518	3000.206	Fluorescent Light fixture, type F4, Wall Mounted, polyester enamel steel housing, one-piece prismatic wrap-around lens, for dry locations only, 2 x 32 W lamps, premium electronic ballast, 347 V.	ea	102.0	12.8	1,155.07	1,303.2	150.16	15,316.18	117,816.74	343.50	35,037.31	340.61	34,742.59	1,989.34	202,912.82
1519	3000.207	Fluorescent Light fixture, type F5, Suspended or Ceiling Mounted, industrial striplight with reflector and wireguard, for dry locations only, 2 x 32 W lamps, premium electronic ballast, 347 V.	ea	227.0	15.5	1,403.09	3,523.0	182.40	41,405.08	318,500.58	420.03	95,346.95	414.31	94,048.13	2,419.83	549,300.73
1520	3000.208	Fluorescent Light fixture, type F10, Wall Mounted, industrial striplight with reflector and wireguard, for dry locations only, 2 x 32 W lamps, premium electronic ballast, 347 V.	ea	33.0	10.9	984.18	359.2	127.94	4,222.11	32,477.80	297.64	9,821.96	291.22	9,610.17	1,700.97	56,132.04
1521	3000.209	Fluorescent Light fixture, type F6, fibreglass reinforced polyester housing, suitable for vapor, dust and wet locations, 2 x 32 W lamps, premium electronic ballast, 347 V.	ea	30.0	15.5	1,403.02	465.6	182.39	5,471.79	42,090.68	1,298.94	38,968.22	591.24	17,737.23	3,475.60	104,267.92
1522	3000.210	Fluorescent Light fixture, type F7, 1220 mm x 610 mm steel housing with 100 mm deep parabolic louver, recessed in T-bar ceiling, 3 x 32 W lamps, premium electronic ballast, 347 V.	ea	34.0	9.5	856.19	322.0	111.30	3,784.35	29,110.38	270.81	9,207.54	255.74	8,695.08	1,494.04	50,797.36
1523	3000.211	Fluorescent Light fixture, type F8, 1220 mm x 610 mm steel housing with 100 mm deep parabolic louver, recessed in T-bar ceiling, 2 x 32 W lamps, premium electronic ballast, 347 V.	ea	16.0	9.3	841.34	148.9	109.37	1,749.98	13,461.37	238.02	3,808.31	245.65	3,930.34	1,434.37	22,950.00
1524	3000.212	Fluorescent Light fixture, type F9, 1220 mm x 610 mm steel housing with pattern 19 lens, recessed in T-bar ceiling, 3 x 32 W lamps, premium electronic ballast, 347 V.	ea	16.0	9.5	856.07	151.5	111.29	1,780.62	13,697.05	239.30	3,828.86	249.37	3,989.86	1,456.02	23,296.39
1525	3000.213	Fluorescent Light fixture, type F11, decorative type with acrylic diffuser, wall-mounted, 2 x 13 W quad tube 4-pin lamps, electronic ballast, 120 V.	ea	2.0	11.1	1,003.02	22.2	130.39	260.79	2,006.04	376.97	753.95	311.62	623.24	1,822.01	3,644.01
1526	3000.214	Fluorescent Light fixture, type F12, wall-mounted bedlight with pull-chain switch, 1220 mm x 168 mm x 130 mm steel housing with K12 prismatic lens, 3 x 32 W lamps, premium electronic ballast, 120 V.	ea	2.0	11.1	1,003.02	22.2	130.39	260.79	2,006.04	381.02	762.05	312.43	624.86	1,826.87	3,653.74
1527	3000.215	Metal Halide Light fixture, type H2, cast aluminum housing, gasketted refractor, suitable for damp or wet locations, wall-mounted, 175 W metal halide lamp, HPF ballast, 347 V.	ea	142.0	16.8	1,523.04	2,392.2	198.00	28,115.34	216,271.84	409.03	58,082.87	440.29	62,520.65	2,570.36	364,990.70
1528	3000.216	LED Low Bay Light fixture, type L1, cast aluminum housing, suspended from open ceiling, 220 W LED array and driver, 347 V.	ea	132.0	14.1	1,271.45	1,856.4	165.29	21,818.13	167,831.74	1,829.88	241,544.54	667.21	88,072.07	3,933.84	519,266.47

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1529	3000.217	LED Low Bay Light fixture, type L2, cast aluminum housing, suspended from ceiling, 143 W LED array and driver, 347 V, Medium Optic	ea	137.0	14.1	1,271.53	1,926.9	165.30	22,645.89	174,199.19	1,628.46	223,098.90	626.68	85,854.94	3,691.96	505,798.92
1530	3000.218	LED Low Bay Light fixture, type L3, cast aluminum housing, suspended from ceiling, 110 W LED array and driver, 347 V, Medium Optic	ea	24.0	14.1	1,271.45	337.5	165.29	3,966.92	30,514.74	1,628.46	39,083.02	626.66	15,039.83	3,691.85	88,604.51
1531	3000.219	LED Low Bay Light fixture, type L4, cast aluminum housing, suspended from ceiling, 110 W LED array and driver, 347 V, Aisle Optic	ea	1.0	14.0	1,265.73	14.0	164.54	164.54	1,265.73	1,516.61	1,516.61	602.80	602.80	3,549.69	3,549.69
1532	3000.220	LED Low Bay Light fixture, type L5, cast aluminum housing, suspended from ceiling, 143 W LED array and driver, 347 V, Wide Optic	ea	17.0	14.1	1,271.60	239.1	165.31	2,810.24	21,617.20	1,628.46	27,683.80	626.70	10,653.83	3,692.06	62,765.06
1533	3000.221	LED Light fixture, type L6, 610 mm x 610 mm housing recessed in T-bar ceiling, opalescent lens, 60 W LED array and driver, 347 V.	ea	65.0	10.0	906.65	651.9	117.86	7,661.35	58,931.94	290.59	18,888.28	271.58	17,652.57	1,586.68	103,133.95
1534	3000.222	LED Light fixture, type L7, mounting yoke for surface mounting and adjustable aiming, 44 W LED array and driver, 347 V, 40 degree beam angle	ea	57.0	13.4	1,209.33	762.5	157.21	8,961.13	68,931.61	521.94	29,750.50	389.29	22,189.49	2,277.77	129,832.71
1535	3000.223	LED Light fixture, type L8, mounting yoke for surface mounting and adjustable aiming, 44 W LED array and driver, 347 V, 20 degree beam angle	ea	20.0	15.3	1,379.27	305.1	179.31	3,586.10	27,585.40	547.50	10,949.97	434.37	8,687.49	2,540.45	50,808.95
1536	3000.224	LED Light fixture, type L9, square housing recessed in ceiling, 150 mm aperature with clear reflector, 30 W LED array and driver, 1500 lumen, 347 V.	ea	48.0	9.0	810.37	430.3	105.35	5,056.73	38,897.94	575.34	27,616.54	306.28	14,701.52	1,797.35	86,272.73
1537	3000.225	LED Light fixture, type L10, wet location housing recessed in ceiling, fresnel lens, 19 W LED array and driver, 900 lumen, 120 V.	ea	2.0	9.0	811.70	18.0	105.52	211.04	1,623.40	301.76	603.51	251.51	503.03	1,470.49	2,940.98
1538	3000.226	High Pressure Sodium Light fixture, type W2, cast aluminum housing, gasketted refractor, suitable for damp or wet locations, wall-mounted, 250 W high pressure sodium lamp, HPF ballast, 347 V.	ea	0.0	15.1	1,365.55	0.0	177.52	0.00	0.00	416.79	0.00	404.83	0.00	2,364.69	0.00
1539	3000.227	High Pressure Sodium Light fixture, type W4, cast aluminum housing, gasketted refractor, suitable for damp or wet locations, wall-mounted, 150 W high pressure sodium lamp, HPF ballast, 347 V.	ea	5.0	14.3	1,292.35	71.5	168.01	840.03	6,461.74	348.91	1,744.54	373.96	1,869.81	2,183.22	10,916.12
1540	3000.228	High Pressure Sodium Light fixture, type W5, cast aluminum housing, gasketted refractor, suitable for damp or wet locations, wall-mounted, 100 W high pressure sodium lamp, HPF ballast, 347 V.	ea	0.0	14.1	1,271.27	0.0	165.27	0.00	0.00	323.40	0.00	363.87	0.00	2,123.80	0.00
1541	3000.229	High Pressure Sodium Light fixture, type W6, cast aluminum housing, gasketted refractor, suitable for damp or wet locations, wall-mounted, 70 W high pressure sodium lamp, HPF ballast, 347 V.	ea	0.0	14.1	1,271.27	0.0	165.27	0.00	0.00	300.05	0.00	359.18	0.00	2,095.76	0.00
1542	3000.230	High Pressure Sodium Light fixture, type P3, cast aluminum housing, gasketted refractor, suitable for damp or wet locations, mounting yoke for pole-mounting, 400 W high pressure sodium lamp, HPF ballast, 347 V, complete with 7620 mm aluminum pole.	ea	4.0	18.5	1,672.97	74.0	217.49	869.94	6,691.86	1,358.41	5,433.65	666.66	2,666.63	3,915.52	15,662.08
1543	3000.231	Exit Sign, fixture type X, LED with "Running-Man" pictogram, universal mounting, with charging system and self-powered Ni-Cad battery for minimum 90 minutes of operation, 347 V input.	ea	125.0	13.1	1,187.88	1,642.4	154.42	19,303.10	148,485.35	316.04	39,504.54	342.80	42,849.53	2,001.14	250,142.52
1544	3000.232	Light Switch, single pole, 15 Amp, 347 Volt	ea	70.0	5.6	504.59	390.7	65.60	4,591.75	35,321.18	43.47	3,042.62	127.34	8,913.55	740.99	51,869.11
1545	3000.233	Light Switch, three-way, 15 Amp, 347 Volt	ea	6.0	9.9	894.19	59.4	116.24	697.47	5,365.14	140.65	843.91	238.46	1,430.78	1,389.55	8,337.30
1546	3000.234	Light Switch, maintained contact pushbutton ON-OFF, 15 Amp, 347 Volt	ea	26.0	9.5	861.93	247.9	112.05	2,913.32	22,410.19	114.99	2,989.79	225.72	5,868.65	1,314.69	34,181.96
1547	3000.235	Dimming Light Switch, for use with electronic fluorescent dimming ballasts, 15 Amp, 347 Volt	ea	7.0	3.3	294.50	22.8	38.28	267.99	2,061.48	16.82	117.73	72.60	508.19	422.20	2,955.39
1548	3000.236	Lighting Control Panel, complete with control transformer, 12-pole mechanically held lighting contactor, ON/OFF pushbuttons and indicating lights, NEMA 12 enclosure.	ea	12.0	19.3	1,748.98	232.2	227.37	2,728.41	20,987.80	5,349.11	64,189.32	1,487.95	17,855.40	8,813.41	105,760.93
1549	3000.237	Aluminum Light poles including luminaire and mounting brackets	ea	0.0	18.5	1,672.97	0.0	217.49	0.00	0.00	1,358.41	0.00	666.66	0.00	3,915.52	0.00
1550	3000.238	Lighting Relay Panel, complete with control transformer, 24-pole electronic relay scanner, (Qty. 24) output control relays, NEMA 12 enclosure.	ea	4.0	21.9	1,977.62	87.5	257.09	1,028.36	7,910.46	4,551.37	18,205.48	1,381.08	5,524.31	8,167.15	32,668.61
1551	3000.239	Lighting Contactor, 600 Volts, three-pole, 100 Amp, complete with control relay and undervoltage relay timer, NEMA 12 enclosure.	ea	4.0	20.7	1,870.87	82.8	243.21	972.85	7,483.46	4,011.48	16,045.91	1,247.29	4,989.18	7,372.85	29,491.40
1552	3000.240	Occupancy Sensor, for use with electronic lighting control system.	ea	4.0	4.1	374.31	16.6	48.66	194.64	1,497.25	74.88	299.50	103.05	412.19	600.90	2,403.58
1553	3000.241	Power Connection Junction Box for lighting and receptacle distribution, complete with terminal mounting rail, terminal blocks rated 600 Volts, conductor size range from 8 AWG to 14 AWG, jumpers, barriers, end blocks, etc. as required.	ea	225.0	6.5	587.85	1,463.0	76.42	17,194.65	132,266.56	167.08	37,592.17	171.79	38,652.86	1,003.14	225,706.24
1554	3000.242	Convenience Receptacle, 20 A, 120 V, duplex, CSA type 5-20R, complete with surface mounted type FD cast outlet box and sheet steel cover.	ea	287.0	6.9	623.50	1,979.3	81.05	23,262.62	178,943.25	57.02	16,364.19	158.01	45,348.83	919.58	263,918.89
1555	3000.243	GFI Receptacle, 20 A, 120 V, duplex, CSA type 5-20R, complete with surface mounted type FD cast outlet box and single-lift weatherproof cover.	ea	146.0	9.5	861.47	1,391.2	111.99	16,350.66	125,774.33	97.74	14,269.48	222.13	32,431.64	1,293.33	188,826.11
1556	3000.244	Grounding conductor, Bare Soft Drawn Copper, size 2/0 AWG	m	1,002.0	0.5	47.55	527.0	6.18	6,193.41	47,641.58	9.10	9,119.31	13.01	13,032.44	75.84	75,986.73
1557	3000.245	Grounding conductor, Bare Soft Drawn Copper, size 4/0 AWG	m	3,089.0	0.2	22.23	759.6	2.89	8,927.05	68,669.59	14.04	43,371.23	8.05	24,870.12	47.21	145,837.98
1558	3000.246	Grounding conductor, Bare Soft Drawn Copper, size 500 kcmil	m	1,128.0	0.5	44.10	550.3	5.73	6,467.35	49,748.82	32.15	36,259.67	16.84	18,991.72	98.82	111,467.55
1559	3000.247	Detail 36 - Ground Connection to small equipment ground bar (panelboard, control cabinet, etc.)	ea	78.0	4.8	432.40	373.1	56.21	4,384.49	33,726.88	75.54	5,892.39	116.83	9,112.61	680.98	53,116.37
1560	3000.248	Detail 37 - Bonding to outside of equipment enclosure (switch, power outlet, etc.)	ea	1,768.0	0.7	64.65	1,264.3	8.40	14,859.49	114,303.74	11.09	19,611.56	17.43	30,811.37	101.58	179,586.16
1561	3000.249	Detail 41 - System grounding for small distribution transformer	ea	20.0	4.1	366.62	81.1	47.66	953.21	7,332.35	73.21	1,464.12	100.90	2,017.97	588.38	11,767.65
1562	3000.250	Detail 43 - Ground Connection to large equipment ground bar (switchgear MCC, etc. - similar to Detail 36)	ea	50.0	5.7	517.83	286.4	67.32	3,365.87	25,891.29	120.07	6,003.58	145.87	7,293.52	851.09	42,554.26
1563	3000.251	Detail 45 - Connection for power transformer grounding (similar to Detail 46)	ea	13.0	2.7	243.25	35.0	31.62	411.09	3,162.24	113.24	1,472.10	79.97	1,039.55	468.08	6,084.98
1564	3000.252	Detail 46 - 1/C bonding to metal surface (i.e. cable tray, etc.)	ea	105.0	0.3	30.37	35.3	3.95	414.52	3,188.58	39.69	4,167.39	15.13	1,588.37	89.13	9,358.85
1565	3000.253	Detail 47 - 2/C bonding to metal surface (i.e. cable tray, etc.)	ea	197.0	0.3	30.37	66.2	3.95	777.67	5,982.06	57.20	11,268.29	18.65	3,674.47	110.16	21,702.48
1566	3000.254	Detail 48 - Compression type cable splice connector	ea	468.0	0.3	27.75	143.7	3.61	1,688.34	12,987.23	15.45	7,232.11	9.63	4,508.20	56.44	26,415.88
1567	3000.255	Detail 54 - Connection to small motor disconnect switch (similar to Detail 37)	ea	84.0	2.9	261.39	242.9	33.98	2,854.39	21,956.85	65.16	5,473.30	74.55	6,262.10	435.08	36,546.64
1568	3000.256	Detail 55 - Connection to large motor disconnect switch and motor frame	ea	15.0	5.0	451.85	75.0	58.74	881.12	6,777.83	117.88	1,768.22	129.93	1,948.88	758.40	11,376.02
1569a	Added	Grounding of Misc Mechanical Equipment & Fixed Steel Objects	ea	507.0	4.7	422.51	2,369.45	54.93	27,847.53	214,211.75	165.63	83,974.00	132.64	67,249.04	775.70	393,282.31
1569	3000.257	Fire Detection System	LS	1.0	8940.4	808,265.47	8,940.4	105,074.51	105,074.51	808,265.47	296,761.15	296,761.15	200,797.73	200,797.73	1,410,898.86	1,410,898.86
1570	3000.258	Shielded twisted pair cable, interlocking armour and overall PVC jacket, CSA type FAS 105, stranded copper conductors, 16 AWG, one (1) pair	m	11,407.0	0.2	13.69	1,727.8	1.78	20,306.76	156,205.88	3.37	38,445.02	3.90	44,450.65	22.74	259,408.32
1571	3000.259	Shielded twisted pair cable, interlocking armour and overall PVC jacket, CSA type FAS 105, stranded copper conductors, 14 AWG, one (1) pair	m	5,054.0	0.2	18.67	1,043.8	2.43	12,267.68	94,366.79	3.37	17,031.89	5.07	25,606.54	29.54	149,272.90
1572	3000.260	Telecom System	LS	1.0	1133.1	102,440.84	1,133.1	13,317.31	13,317.31	102,440.84	234,810.30	234,810.30	71,348.47	71,348.47	421,916.92	421,916.92
1573	3000.261	Plant Security and Access Control System	LS	1.0	17.5	1,579.04	17.5	205.28	205.28	1,579.04	378.16	378.16	447.24	447.24	2,609.71	2,609.71
1574	3000.262	Water Tight seal around cables running thru Roof metal Sleeves	LS	1.0	75.6	6,830.50	75.6	887.97	887.97	6,830.50	2,626.50	2,626.50	2,134.05	2,134.05	12,479.02	12,479.02
1575	3310.040	Electrical Shaft Platforms/Staging	LS	1.0	1105.8	99,974.53	1,105.8	12,996.69	12,996.69	99,974.53	38,743.86	38,743.86	31,295.63	31,295.63	183,010.71	183,010.71
1575a	Added	House Keeping Pads For Electrical Equipment	LS	1.0	6423.4	580,710.19	6,423.37	75,492.32	75,492.32	580,710.19	24,864.24	24,864.24	141,481.25	141,481.25	822,548.01	822,548.01

SCHEDULE OI PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No.	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1575b	Added	Removal of Temp Construction Power to OH Crane, Elevator & Elec Panels	LS	1.0	209.9	18,972.07	209.85	2,466.37	2,466.37	18,972.07	1,751.00	1,751.00	4,811.24	4,811.24	28,000.69	28,000.69
1575c	Added	Removal of Temp Construction Power to Spillway E House	LS	1.0	251.8	22,766.48	251.83	2,959.64	2,959.64	22,766.48	0.00	0.00	5,350.46	5,350.46	31,076.58	31,076.58
1575d	Added	Removal of Temp 125 V DC System in Spillway E House	LS	1.0	209.9	18,972.07	209.85	2,466.37	2,466.37	18,972.07	0.00	0.00	4,458.72	4,458.72	25,897.16	25,897.16
1575e	Added	Trenching from Pit # 3 to Control Building	LS	1.0	0.0	0.00	0.00	0.00	0.00	0.00	153,722.86	153,722.86	464.47	464.47	154,187.33	154,187.33
1575f	Added	Design & Supply of ATS & Load Management System	LS	1.0	0.0	0.00	0.00	0.00	0.00	0.00	870,029.66	870,029.66	2,628.77	2,628.77	872,658.43	872,658.43
ST06		SUB-TOTAL ELECTRICAL - CONTRACTOR SUPPLIED - SUPPLY AND INSTALLATION					204104.0		$2,398,785.40	$18,452,195.35		$18,674,166.51		$7,835,114.57		$47,360,261.83
		ELECTRICAL - FREE ISSUED MATERIALS - ASSEMBLY AND INSTALLATION														
1576	3460.010	Generator Step Up Transformer Unit 1 - Installation, Assembly	LS	1.0	797.5	72,093.85	797.5	9,372.20	9,372.20	72,093.85	115,799.67	115,799.67	17,293.00	17,293.00	214,558.72	214,558.72
1577	3460.020	Generator Step Up Transformer Unit 2 - Installation, Assembly	LS	1.0	797.5	72,093.85	797.5	9,372.20	9,372.20	72,093.85	115,799.67	115,799.67	17,293.00	17,293.00	214,558.72	214,558.72
1578	3460.030	Generator Step Up Transformer Unit 3 - Installation, Assembly	LS	1.0	797.5	72,093.85	797.5	9,372.20	9,372.20	72,093.85	115,799.67	115,799.67	17,293.00	17,293.00	214,558.72	214,558.72
1579	3460.040	Generator Step Up Transformer Unit 4 - Installation, Assembly	LS	1.0	797.5	72,093.85	797.5	9,372.20	9,372.20	72,093.85	115,799.67	115,799.67	17,293.00	17,293.00	214,558.72	214,558.72
1579a	Added	Spare Generator Step Up Transformer	LS	1.0	671.5	60,710.61	671.53	7,892.38	7,892.38	60,710.61	115,799.67	115,799.67	14,617.77	14,617.77	199,020.43	199,020.43
1580	3436.010	Installation, Assembly of Unit 1 IPB	LS	1.0	1062.0.5	960,151.52	10,620.5	124,819.70	124,819.70	960,151.52	14,299.86	14,299.86	228,528.68	228,528.68	1,327,799.75	1,327,799.75
1581	3436.020	Installation, Assembly of Unit 2 IPB	LS	1.0	1062.0.5	960,151.52	10,620.5	124,819.70	124,819.70	960,151.52	14,299.86	14,299.86	228,528.68	228,528.68	1,327,799.75	1,327,799.75
1582	3436.030	Installation, Assembly of Unit 3 IPB	LS	1.0	1062.0.5	960,151.52	10,620.5	124,819.70	124,819.70	960,151.52	14,299.86	14,299.86	228,528.68	228,528.68	1,327,799.75	1,327,799.75
1583	3436.040	Installation, Assembly of Unit 4 IPB	LS	1.0	1062.0.5	960,151.52	10,620.5	124,819.70	124,819.70	960,151.52	14,299.86	14,299.86	228,528.68	228,528.68	1,327,799.75	1,327,799.75
1584	3438.010	Unit 1 Generator Circuit Breaker - Installation, Assembly	LS	1.0	629.6	56,916.20	629.6	7,399.11	7,399.11	56,916.20	0.00	0.00	13,376.13	13,376.13	77,691.44	77,691.44
1585	3438.020	Unit 2 Generator Circuit Breaker - Installation, Assembly	LS	1.0	629.6	56,916.20	629.6	7,399.11	7,399.11	56,916.20	0.00	0.00	13,376.13	13,376.13	77,691.44	77,691.44
1586	3438.030	Unit 3 Generator Circuit Breaker - Installation, Assembly	LS	1.0	629.6	56,916.20	629.6	7,399.11	7,399.11	56,916.20	0.00	0.00	13,376.13	13,376.13	77,691.44	77,691.44
1587	3438.040	Unit 4 Generator Circuit Breaker - Installation, Assembly	LS	1.0	629.6	56,916.20	629.6	7,399.11	7,399.11	56,916.20	0.00	0.00	13,376.13	13,376.13	77,691.44	77,691.44
1587a	Added	Generator Circuit Breaker House Keeping pads	LS	1.0	1228.1	111,027.83	1,228.10	14,433.62	14,433.62	111,027.83	5,267.02	5,267.02	27,153.56	27,153.56	157,882.03	157,882.03
ST07		SUB-TOTAL ELECTRICAL - FREE ISSUED MATERIALS - ASSEMBLY AND INSTALLATION					50089.5		$588,690.01	$4,528,384.72		$641,464.81		$1,078,562.58		$6,837,102.12
		ARCHITECTURAL														
		POWERHOUSE ARCHITECTURAL - SUPPLY & INSTALL														
1588	3320.010	Concrete Unit Masonry wall Type B2a Height = full height	m2	1,788.0	9.4	845.47	16,721.2	109.91	196,520.28	1,511,694.49	50.00	89,399.80	208.76	373,268.95	1,214.14	2,170,883.52
1589	3320.020	Concrete Unit Masonry wall Type B2b height = 2.8m	m2	425.0	10.8	976.08	4,588.6	126.89	53,928.50	414,834.58	69.40	29,496.49	243.37	103,430.64	1,415.74	601,690.21
1590	3320.030	Concrete Unit Masonry wall Type B2c height = 4.5m	m2	68.0	11.5	1,039.00	781.5	135.07	9,184.77	70,652.06	73.95	5,028.53	259.07	17,616.64	1,507.09	102,482.00
1591	3320.040	Concrete Unit Masonry wall Type B2d height = 5.2m	m2	326.0	6.0	541.00	1,950.8	70.33	22,927.41	176,364.66	39.18	12,771.38	135.03	44,019.51	785.53	256,082.96
1592	3320.050	Concrete Unit Masonry wall Type B2e height = 3.0m	m2	37.0	10.2	918.09	375.7	119.35	4,416.04	33,969.50	133.02	4,921.78	242.55	8,974.22	1,413.01	52,281.53
1593	3320.060	Concrete Unit Masonry wall Type B2f height = 5.0m	m2	134.0	11.7	1,054.31	1,562.7	137.06	18,366.11	141,277.78	75.02	10,052.44	262.88	35,226.18	1,529.27	204,922.51
1594	3320.070	Concrete Unit Masonry wall Type B3a Height =3.0m	m2	14.0	25.9	2,338.36	362.1	303.99	4,255.81	32,737.03	164.68	2,305.48	582.70	8,157.84	3,389.73	47,456.16
1595	3320.080	Concrete Unit Masonry wall Type B4a height = 2.8m	m2	63.0	9.9	898.99	626.5	116.87	7,362.70	56,636.15	64.17	4,042.81	224.19	14,124.26	1,304.22	82,165.92
1596	3320.090	Concrete Unit Masonry wall Type B4b height = full height	m2	55.0	10.3	930.06	565.8	120.91	6,649.91	51,153.18	17.08	939.27	222.02	12,210.85	1,290.06	70,953.22
1597	3320.100	Partition Wall W1a height = 6.5m	m2	933.0	10.7	968.03	9,990.2	125.84	117,412.84	903,175.71	60.24	56,202.19	239.63	223,574.51	1,393.75	1,300,365.27
1598	3320.110	Partition Wall W1b height = 4.5m	m2	3,478.0	6.6	593.36	22,827.1	77.14	268,281.79	2,063,706.06	41.02	142,663.26	147.71	513,723.10	859.22	2,988,374.20
1599	3320.120	Partition WallW1c height = 4.5m	m2	16.0	18.6	1,683.54	298.0	218.86	3,501.76	26,936.60	107.75	1,723.96	417.35	6,677.57	2,427.49	38,839.88
1600	3320.130	Partition Wall W2a height = 3.2m	m2	0.0	147.8	13,362.93	0.0	1,737.18	0.00	0.00	3,007.06	0.00	3,745.89	0.00	21,853.05	0.00
1601	3320.140	Partition Wall W2b height = 4.5m	m2	990.0	10.7	967.05	10,589.8	125.72	124,459.43	957,380.22	67.71	67,032.04	240.90	238,493.71	1,401.38	1,387,365.40
1602	3320.150	Partition Wall W2c height = 5.45m	m2	42.0	10.7	967.70	449.6	125.80	5,283.63	40,643.33	88.09	3,699.86	245.16	10,296.66	1,426.75	59,923.48
1603	3320.160	Partition Wall W3a height = 4.5m	m2	265.0	8.0	719.17	2,108.0	93.49	24,775.24	190,578.80	61.32	16,250.04	181.36	48,060.38	1,055.34	279,664.47
1604	3320.170	Partition Wall W4a height = 4.5m	m2	50.0	13.9	1,260.41	697.1	163.85	8,192.63	63,020.25	146.62	7,331.11	325.73	16,286.63	1,896.61	94,830.62
1605	3320.180	Partition Wall W5a height = 4.5m	m2	22.0	8.2	742.07	180.6	96.47	2,122.32	16,325.54	62.78	1,381.05	187.04	4,114.78	1,088.35	23,941.69
1606	3320.190	Partition Wall W6a height = 3.2m	m2	69.0	10.1	916.97	699.9	119.21	8,225.25	63,271.18	57.54	3,969.92	227.09	15,668.90	1,320.80	91,135.25
1607	3320.200	Shaft Wall W7a height = 3.2m	m2	128.0	11.7	1,057.18	1,496.8	137.43	17,591.51	135,319.28	54.62	6,991.60	259.45	33,209.61	1,508.69	193,112.00
1608	3320.210	Shaft Wall W8a = 1.520 mm	m2	337.0	6.9	621.20	2,315.6	80.76	27,214.94	209,345.69	17.01	5,730.85	149.42	50,353.08	868.38	292,644.56
1609	3320.220	Shaft Wall W9a	m2	1,171.0	8.6	773.97	10,025.0	100.62	117,821.23	906,317.15	53.22	62,316.97	192.61	225,543.88	1,120.41	1,311,999.24
1610	3320.230	Shaft Wall W9b	m2	0.0	98.5	8,908.62	0.0	1,158.12	0.00	0.00	745.96	0.00	2,243.83	0.00	13,056.53	0.00
1611	3320.240	Shaft Partition Wall W10a height = 4.5m	m2	57.0	24.9	2,248.18	1,417.5	292.26	16,659.03	128,146.36	312.83	17,831.07	591.34	33,706.14	3,444.61	196,342.60
1612	3320.250	Shaft Partition Wall W10b height = full height	m2	66.0	10.6	958.05	699.4	124.55	8,220.03	63,230.97	43.27	2,855.85	233.87	15,435.16	1,359.73	89,742.01
1613	3320.260	Partition Wall W11	m2	0.0	98.5	8,908.62	0.0	1,158.12	0.00	0.00	447.58	0.00	2,183.77	0.00	12,698.09	0.00
1614	3320.270	Plenum Partition Wall W12a	m2	33.0	13.6	1,228.00	448.3	159.64	5,268.13	40,524.11	188.05	6,205.75	326.46	10,773.14	1,902.16	62,771.14
1615	3320.280	Partition Wall W13a height = 3.0m	m2	61.0	9.4	845.64	570.6	109.93	6,705.96	51,584.34	327.64	19,985.76	264.70	16,146.72	1,547.91	94,422.79
1616	3320.290	Closure C1a height = 4.5m	m2	150.0	9.9	890.86	1,478.1	115.81	17,371.81	133,629.33	12.27	1,840.50	211.84	31,775.39	1,230.78	184,617.04
1617	3320.300	Closure C2a height = 4.5m	m2	105.0	9.9	890.86	1,034.7	115.81	12,160.27	93,540.53	17.71	1,859.29	212.93	22,357.72	1,237.31	129,917.80
1618	3320.310	Closure C3a height = 4.5m	m2	10.0	9.9	890.86	98.5	115.81	1,158.12	8,908.62	67.53	675.28	222.96	2,229.61	1,297.16	12,971.63
1619	3320.320	Closure C4a height = 4.5m	m2	480.0	9.9	890.86	4,729.9	115.81	55,589.80	427,613.88	11.30	5,422.54	211.64	101,587.25	1,229.61	590,213.47
1620	3320.330	Closure C4b height = 3m	m2	55.0	9.9	890.86	542.0	115.81	6,369.67	48,997.43	21.15	1,163.25	213.62	11,749.31	1,241.45	68,279.66
1621	3320.340	Closure C5a height = 4.5m	m2	20.0	9.9	890.86	197.1	115.81	2,316.24	17,817.24	57.11	1,142.18	220.86	4,417.27	1,284.65	25,692.93
1622	3320.350	Closure C6a height = 4.5m	m2	80.0	9.9	890.86	788.3	115.81	9,264.97	71,268.98	87.10	6,967.80	226.90	18,152.07	1,320.67	105,653.81
1623	3320.360	Closure C7a height = 4.5m	m2	130.0	9.9	890.86	1,281.0	115.81	15,055.57	115,812.09	21.83	2,837.97	213.76	27,788.91	1,242.27	161,494.54
1624	3320.370	Closure C7b height = 4.5m	m2	2.0	9.9	890.73	19.7	115.79	231.59	1,781.45	50.01	100.02	219.40	438.80	1,275.93	2,551.86
1625	3320.380	Closure C8a height = 4.5m	m2	5.0	9.9	890.86	49.3	115.81	579.06	4,454.31	41.09	205.44	217.64	1,088.19	1,265.40	6,327.00
1626	3320.390	Closure C9a height = 4.5m	m2	8.0	9.9	890.90	78.8	115.82	926.53	7,127.17	75.64	605.16	224.60	1,796.83	1,306.96	10,455.69
1627	3320.400	Closure C9b height = 4.5m	m2	20.0	9.9	890.86	197.1	115.81	2,316.24	17,817.24	46.91	938.13	218.81	4,376.19	1,272.39	25,447.80
1628	3320.410	Closure C10a height = 4.5m	m2	32.0	9.9	890.85	315.3	115.81	3,705.95	28,507.31	32.26	1,032.34	215.86	6,907.46	1,254.78	40,153.07
1629	3320.420	Door type DT-1A	ea	14.0	20.9	1,885.42	292.0	245.10	3,431.47	26,395.92	1,839.60	25,754.41	813.46	11,388.45	4,783.59	66,970.25
1630	3320.430	Door type DT-1B	ea	11.0	18.2	1,649.75	200.7	214.47	2,359.14	18,147.20	2,015.60	22,171.59	793.51	8,728.58	4,673.32	51,406.50
1631	3320.440	Door type DT-1C	ea	102.0	18.2	1,649.74	1,861.3	214.47	21,875.62	168,273.98	1,737.93	177,268.91	737.60	75,235.66	4,339.75	442,654.18
1632	3320.450	Door type DT-2A	ea	22.0	18.2	1,649.75	401.5	214.47	4,718.27	36,294.39	3,305.89	72,729.69	1,053.28	23,172.07	6,223.38	136,914.42
1633	3320.460	Door type DT-2B	ea	7.0	18.2	1,649.74	127.7	214.47	1,501.27	11,548.21	5,800.52	40,603.65	1,555.51	10,888.57	9,220.24	64,541.69
1633a	Added	Door type DT-3B	ea	1.0	18.3	1,649.74	18.25	214.47	214.47	1,649.74	4,144.25	4,144.25	1,222.06	1,222.06	7,230.52	7,230.52
1634	3320.470	Coiling counter doors (roller shutters)	ea	7.0	51.1	4,619.29	357.7	600.51	4,203.55	32,335.00	1,751.00	12,257.02	1,438.12	10,066.86	8,408.92	58,867.43
1635	3320.480	Interior Windows	ea	7.0	36.5	3,299.49	255.5	428.93	3,002.53	23,096.42	484.44	3,391.11	872.96	6,110.71	5,085.82	35,600.77
1636	3320.490	Plastic laminated window sills	Linear meter	19.0	6.0	541.11	113.7	70.34	1,336.54	10,281.10	116.73	2,217.94	150.67	2,862.73	878.86	16,698.31
1637	3320.500	Cement board circulation floors in mechanical space on elevation 29.50 and 38.97	m2	325.0	3.1	281.51	1,012.0	36.60	11,893.90	91,491.52	19.20	6,241.47	70.03	22,758.42	407.34	132,385.31
1638	3320.510	Ceramic Floor finish tiles and baseboards in washrooms	m2	165.0	4.3	391.98	715.4	50.96	8,408.00	64,676.99	89.34	14,740.59	110.11	18,167.68	642.38	105,993.20
1639	3320.520	Vinyl Composite tiles flooring	m2	1,100.0	3.2	286.86	3,490.3	37.29	41,020.66	315,543.51	27.15	29,867.07	72.88	80,170.38	424.18	466,601.61
1640	3320.530	Vinyl base	Linear meter	800.0	2.1	194.21	1,718.5	25.25	20,197.55	155,365.76	4.77	3,818.03	46.60	37,281.91	270.83	216,663.25

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
							0.13									
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x J
1641	3320.540	Epoxy paint flour in warehouse	m2	1,000.0	4.3	388.42	4,296.4	50.49	50,494.14	388,416.48	7.41	7,409.25	92.78	92,775.25	539.10	539,095.13
1642	3320.550	Cementitious Fireproofing on steel structural members	m2	1,150.0	4.5	409.80	5,212.8	53.27	61,264.52	471,265.57	74.60	85,785.89	111.33	128,025.27	648.99	746,341.25
1643	3320.560	Cementitious Fireproofing on metal lath	m2	1,395.0	2.9	266.67	4,114.9	34.67	48,361.19	372,009.18	74.60	104,061.02	77.69	108,378.00	453.63	632,810.37
1644	3320.570	Plenum roof type PC1	m2	20.0	14.8	1,336.29	295.6	173.72	3,474.36	26,725.86	104.21	2,084.29	335.03	6,700.59	1,949.25	38,985.10
1645	3320.580	Mineral Acoustical Panels ceiling systems in offices, lobbies, communication room, lunch room and sleeping room	m2	1,100.0	3.0	270.25	3,288.3	35.13	38,646.02	297,277.10	28.05	30,852.76	69.16	76,075.94	402.59	442,851.82
1646	3320.590	Ceramic and Mineral fibre composite acoustical panels in washrooms ceiling tiles	m2	124.0	3.1	281.51	386.1	36.60	4,537.87	34,906.67	13.14	1,629.87	68.80	8,531.70	400.05	49,606.11
1647	3320.600	Gypsum board ceiling in battery rooms	m2	155.0	3.1	281.51	482.6	36.60	5,672.38	43,633.68	86.93	13,474.03	83.66	12,967.23	488.69	75,747.31
1648	3320.610	Kitchen upper and lower cabinets	Linear meter	9.0	71.8	6,493.46	646.4	844.15	7,597.35	58,441.17	802.54	7,222.89	1,687.63	15,188.69	9,827.79	88,450.10
1649	3320.620	Glazed ceramic wall finish tiles and baseboards in washrooms	m2	370.0	7.4	673.49	2,756.4	87.55	32,394.94	249,191.88	61.06	22,592.43	170.57	63,112.20	992.68	367,291.46
1650	3320.630	Urethane in Storage Rooms	m2	2,429.0	1.1	96.21	2,585.0	12.51	30,381.12	233,700.91	7.46	18,126.21	24.11	58,572.43	140.30	340,780.67
1651	3320.640	Painting on masonry walls	m2	4,190.0	1.1	96.21	4,459.2	12.51	52,407.40	403,133.88	2.53	10,604.09	23.12	96,877.28	134.37	563,022.65
1652	3320.650	Painting on gypsum wall and ceilings	m2	8,220.0	1.1	96.21	8,748.0	12.51	102,813.24	790,871.05	3.63	29,806.19	23.34	191,867.09	135.69	1,115,357.57
1653	3320.660	Washroom accessories	LS	1.0	615.0	55,596.40	615.0	7,227.53	7,227.53	55,596.40	27,105.53	27,105.53	18,523.01	18,523.01	108,452.47	108,452.47
1654	3320.670	Lockers in Lockers Rooms	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1655	3320.680	Signage	LS	1.0	1071.2	96,840.03	1,071.2	12,589.20	12,589.20	96,840.03	68,989.52	68,989.52	36,648.20	36,648.20	215,066.96	215,066.96
1656	3320.690	Appliances and furniture	LS	1.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ST08		SUB-TOTAL ARCHITECTURAL - SUPPLY & INSTALL					152680.6		$1,794,417.32	$13,803,210.12		$1,450,869.85		$3,536,055.01		$20,584,552.30
		POWERHOUSE DIESEL GENERATOR SYSTEM														
		DIESEL GENERATOR SYSTEM - SUPPLY AND INSTALLALTION														
1657	3437.010	Emergency Diesel Generator Set	LS	1.0	291.8	26,379.29	291.8	3,429.31	3,429.31	26,379.29	238,400.84	238,400.84	54,195.75	54,195.75	322,405.19	322,405.19
1658	3437.020	Diesel Fuel System	LS	1.0	1166.3	105,442.26	1,166.3	13,707.49	13,707.49	105,442.26	349,986.00	349,986.00	95,006.42	95,006.42	564,142.17	564,142.17
ST09		SUB-TOTAL DIESEL GENERATOR SYSTEM - SUPPLY AND INSTALLATION					1458.1		$17,136.80	$131,821.55		$588,386.85		$149,202.17		$886,547.37
		COMMISSIONING														
		PIPING/MECHANICAL SYSTEMS - SINGLE CONTRACTOR DYNAMIC COMMISSIONING														
1659	3352.153	WPS (Domestic Water)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1660	3353.580	SDS (Wastewater)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1661	3441.660	ASS (Low Pressure Compressed Air)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1662	3442.600	AHS (High Pressure Compressed Air)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1663	3443.030	WFS (Fire Protection Water)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	107,861.79	107,861.79	9,689.37	9,689.37	162,572.66	162,572.66
1664	3444.101	WCD (Clear Water Drainage)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1665	3445.950	WDS (Dewatering)	LS	1.0	755.5	68,299.43	755.5	8,878.93	8,878.93	68,299.43	0.00	0.00	16,051.36	16,051.36	93,229.72	93,229.72
1666	3446.250	OLS (Lubricating/Hydraulic Oil)	LS	1.0	881.4	79,682.68	881.4	10,358.75	10,358.75	79,682.68	0.00	0.00	18,726.60	18,726.60	108,768.03	108,768.03
1667	3447.140	ODS (Oily Water Drainage)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1668	3448.113	WCS (Raw/Cooling Water)	LS	1.0	881.4	79,682.68	881.4	10,358.75	10,358.75	79,682.68	0.00	0.00	18,726.60	18,726.60	108,768.03	108,768.03
1669	3449.196	WSS (Service Water)	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1670	3444.50	ABR (Brake Air)	LS	1.0	881.4	79,682.68	881.4	10,358.75	10,358.75	79,682.68	0.00	0.00	18,726.60	18,726.60	108,768.03	108,768.03
1671	3448.84	WTS (Shaft Seal Water)	LS	1.0	881.4	79,682.68	881.4	10,358.75	10,358.75	79,682.68	0.00	0.00	18,726.60	18,726.60	108,768.03	108,768.03
1672	3448.05	WLS (Piezometer and Water Level)	LS	1.0	839.4	75,888.26	839.4	9,865.47	9,865.47	75,888.26	0.00	0.00	17,834.85	17,834.85	103,588.59	103,588.59
1673	3440.244	Mechanical Shop Equipment	LS	1.0	188.9	17,075.55	188.9	2,219.82	2,219.82	17,075.55	0.00	0.00	4,013.01	4,013.01	23,308.38	23,308.38
ST10		SUB-TOTAL PIPING/MECHANICAL - SINGLE CONTRACTOR DYNAMIC COMMISSIONING					8834.9		$103,834.93	$798,730.20		$107,861.79		$188,039.28		$1,198,466.19
		HVAC SYSTEMS - SINGLE CONTRACTOR DYNAMIC COMMISSIONING														
1674	3351.290	EDD (Dewatering gallery supply and Exhaust)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1675	3351.300	EGR (Exhaust for Trans., Storage and Garbage rooms)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1676	3351.310	EKH (Kitchen range exhaust)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1677	3351.320	END (Exhaust North RCC Dam)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1678	3351.330	EOR (Exhaust oil Storage Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1679	3351.340	ESB (South service bay vent and exhaust)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1680	3351.350	ESP (Exhaust for Waste Water treatment Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1681	3351.360	ESR (Ventilate and exhaust Oil/water Interceptor Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1682	3351.370	ESW (Exhaust Storage, Washrooms and Janitor rooms)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1683	3351.380	EWT (Exhaust and Ventilate the Wastewater Treatment Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1684	3351.390	PSC (Pressurize 4 Stairwells)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1685	3351.400	VCC (Control Room, Communication Room and assoc. space)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1686	3351.410	VCR (Ventilation and Cooling for Compressor Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1687	3351.420	VDA (Ventilate Dewatering, Drainage and Draft tube galleries)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1688	3351.430	VDT (Ventilate Draft Tube Gallery)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1689	3351.440	VEG (Diesel Emergency Generator)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1690	3351.450	VEL (Ventilate and Exhaust Elevator Machine Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1691	3351.460	VER (Ventilate Electrical Battery and Charger Rooms)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1692	3351.470	VFP (Ventilate the Fire Pump Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1693	3351.480	VIG (Ventilation for Lower inspection galleries)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1694	3351.490	VIL (Ventilate and Exhaust Intake Gate Hoist Building)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1695	3351.500	VMR (Machine Hall Main Supply and Exhaust)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1696	3351.510	VMS (Warehouse and Workshop spaces)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1697	3351.520	VND (Ventilate North RCC Dam)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1698	3351.530	VOF (Offices and admin spaces on Mezz. 1 & 2)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1699	3351.540	VCD (Ventilate Centre Transition Dam)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1700	3351.550	VSD (Ventilate South Dam)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1701	3351.560	EMCS (Energy Monitoring and Control System)	LS	1.0	293.8	26,560.90	293.8	3,452.92	3,452.92	26,560.90	76,234.30	76,234.30	6,472.55	6,472.55	112,720.66	112,720.66
1701.1	3351.670	EBR (Exhaust Battery Room)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1701.2	3351.580	EWH (Exhaust Welding Hood)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1701.3	3351.590	ESC (Smoke Exhaust)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
1701.4	3351.600	VSA (Spiral Case Access)	LS	1.0	42.0	3,794.42	42.0	493.27	493.27	3,794.42	0.00	0.00	891.74	891.74	5,179.43	5,179.43
							0.0		$0.00	$0.00		$0.00		$0.00	$0.00	$0.00
ST11		SUB-TOTAL HVAC SYSTEM - SINGLE CONTRACTOR DYNAMIC COMMISSIONING					1594.9		$18,744.43	$144,187.92		$76,234.30		$34,116.46		$273,283.11
		ELECTRICAL SYSTEMS - SINGLE CONTRACTOR DYNAMIC COMMISSIONING														
1702	3433.050	Station Service Switchgear, MCC and Connected Equipment	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	297,670.52	297,670.52	10,262.87	10,262.87	352,954.89	352,954.89

SCHEDULE OF PRICE BREAKDOWN

					LABOUR COMPONENT						NON LABOUR COMPONENT					
					0.13											
No	Subcode	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	EST. QTY A	PLA LABOUR HOURS (per unit) B	LABOUR COST (per unit) C	TOTAL LABOUR HOURS	LABOUR OH&P (per unit) D = C x 13%	LABOUR OH&P (Ext.) E = A x D	COST OF LABOUR (Ext.) F = A x C	MAT. COST (per unit) G	MAT. TOTAL COST	EQUIP. COST (per unit) H	TOTAL EQUIP. COST	UNIT PRICE I = C + D + G + H	TOTAL PRICE J = A x I
1702a	Added	ATS & Load Management System Commissioning	LS	1.0	314.8	28,458.80	314.79	3,699.64	3,699.64	28,458.80	72,958.46	72,958.46	6,908.68	6,908.68	112,025.58	112,025.58
1703	3340.170	Common Station Service MCC, Essential MCC and Connected Equipment	LS	1.0	3777.4	341,497.19	3,777.4	44,394.63	44,394.63	341,497.19	198,447.02	198,447.02	80,856.47	80,856.47	665,195.31	665,195.31
1704	3000.263	Intake Distribution Equipment and Building Systems	LS	1.0	1888.7	170,748.60	1,888.7	22,197.32	22,197.32	170,748.60	99,223.51	99,223.51	40,428.23	40,428.23	332,597.66	332,597.66
1705	3435.020	Station Service Transformers	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1706	3460.050	GSU Ancillary Systems	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1707	3000.264	Powerhouse Gallery Electrical Distribution	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	211,871.37	211,871.37	10,003.63	10,003.63	266,896.50	266,896.50
1708	3000.265	Turbine Floor Electrical Distribution	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	198,447.02	198,447.02	9,963.07	9,963.07	253,431.58	253,431.58
1709	3000.266	Generator Floor Electrical Distribution	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	49,611.75	49,611.75	9,513.36	9,513.36	104,146.61	104,146.61
1710	3000.267	North Dam, North Transition Dam, Centre Transition Dam and South Transition Dam Electrical Distribution and Systems	LS	1.0	440.7	39,842.03	440.7	5,179.46	5,179.46	39,842.03	0.00	0.00	9,363.47	9,363.47	54,384.96	54,384.96
1711	3000.268	Turbine Floor Lighting System	LS	1.0	314.8	28,458.80	314.8	3,699.64	3,699.64	28,458.80	0.00	0.00	6,688.24	6,688.24	38,846.68	38,846.68
1712	3000.269	Generator Floor Lighting System	LS	1.0	314.8	28,458.80	314.8	3,699.64	3,699.64	28,458.80	0.00	0.00	6,688.24	6,688.24	38,846.68	38,846.68
1713	3443.040	Fire Detection System - ELECTRICAL	LS	1.0	1322.1	119,524.71	1,322.1	15,538.21	15,538.21	119,524.71	30,733.61	30,733.61	28,182.93	28,182.93	193,979.46	193,979.46
1714	3460.060	Generator Step Up Transformer Unit 1	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1715	3460.070	Generator Step Up Transformer Unit 2	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1716	3460.080	Generator Step Up Transformer Unit 3	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1717	3460.090	Generator Step Up Transformer Unit 4	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1718	3436.050	Unit 1 Isolated Phase Bus	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1719	3436.060	Unit 2 Isolated Phase Bus	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1720	3436.070	Unit 3 Isolated Phase Bus	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1721	3436.080	Unit 4 Isolated Phase Bus	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1722	3438.050	Unit 1 Generator Circuit Breaker	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1723	3438.060	Unit 2 Generator Circuit Breaker	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1724	3438.070	Unit 3 Generator Circuit Breaker	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
1725	3438.080	Unit 4 Generator Circuit Breaker	LS	1.0	419.7	37,944.13	419.7	4,932.74	4,932.74	37,944.13	0.00	0.00	8,917.43	8,917.43	51,794.29	51,794.29
ST12		SUB-TOTAL ELECTRICAL SYSTEMS - SINGLE CONTRACTOR DYNAMIC COMMISSIONING					18054.0		$188,678.19	$1,451,370.67		$1,158,963.26		$344,595.24		$3,143,607.36
		POWERHOUSE DIESEL GENERATOR SYSTEM - SINGLE CONTRACTOR DYNAMIC COMMISSIONING														
1726	3437.030	POWERHOUSE DIESEL GENERATOR SYSTEM	LS	1.0	881.4	79,682.68	881.4	10,358.75	10,358.75	79,682.68	25,593.83	25,593.83	20,887.32	20,887.32	136,522.58	136,522.58
ST13		SUB-TOTAL DIESEL GENERATOR SYSTEM - SINGLE CONTRACTOR DYNAMIC COMMISSIONING					881.4		$10,358.75	$79,682.68		$25,593.83		$20,887.32		$136,522.58
ST14		SUBTOTALS					707,042		$8,309,691.40	$63,920,703.06		$93,182,476.71		$27,430,276.90		$192,843,148.06
		TOTAL ESTIMATED CONTRACT PRICE														$192,843,148.06

APPENDIX B

MILESTONE PAYMENT SCHEDULE

MILESTONE PAYMENT SCHEDULE

LABOUR COMPONENT

Item #	Item Description	Payment Schedule	Criteria
All	Reimbursable Cost of Labour	Neutral Funded Monthly	Neutral Funded Monthly a) Support in accordance with Exhibit 2 Section 16.2.

NON LABOUR COMPONENT

Item #	Item Description	Payment Schedule	Criteria
1	Mobilization	a) 15% upon submittal of "A" series (General) documents per SDRL with Submission. Requirement Date of ARO+8 or earlier. b) 10% on Acceptance (Code 2) of documents in SDRL with Submission Requirement Date of ARO+8 or earlier. c) 50% after Commencement of Mobilization. d) 25% after Completion of Mobilization.	a) Confirmation all documents have been submitted to Engineer for review and Acceptance. b) Confirmation all documents are returned to Contractor as Code 2). c) As Approved by Company where Commencement of Mobilization is defined as a Site office installed and ready for occupancy and Project Manager is on-Site. d) As Approved by Company where Completion of Mobilization is considered to be: 1) Approval (Code 1) of "A" series (General) documents per SDRL with Submission Requirement Date of ARO+8 or earlier; and 2) Begin installation of permanent Work on Site.
PM	Staff Labour	Monthly payments of: a) 3.214% for Month 1 – 28 inclusive (90% of total) b) 1.00% for Months 29-38 inclusive (10% of total) Based on 38 month schedule	Approved Monthly Payment Certificate.
	Advance Payment (Optional at Contractor's discretion)	Advance payment of up to 10% of Materials Cost and Equipment Cost components of Contract Price. Up-front payment to be paid back as % (equivalent to the percentage of the advance payment) of future	a) Schedule of values Approved By Company b) Control Schedule Submitted to Engineer c) Performance Security, strictly in accordance with Agreement requirements, received by Company

Item #	Item Description	Payment Schedule	Criteria
		invoices	
2	Site Installation	2.78% per month (1/36 of Price Item) beginning after Commencement of Site Installation for months 1-36.	a) Commencement of Site Installation is defined as a Site office installed and ready for occupancy and preliminary site team is on-Site. b) Approved Monthly Payment Certificate.
3	Demobilization	100% upon Completion of Demobilization.	As Approved by Company that Contractor has completed Demobilization
4	Travel Cost for Trades Labour	Monthly	Demonstrated by submittal of receipts or other supporting documentation as required by Company.
4(c) & (d)	Performance Security	100% upon Provision of Performance Security by Contractor.	Notification of Approval by Company.
5 – 6	Piping Mechanical - Design and Engineering	a) 50% upon Piping Mechanical - Design and Engineering Contract Award. b) 50% on Approval for use (Code 1) of all engineering deliverables in accordance with the SDRL.	a) Notification of Approval by Company. b) Confirmation all documents are returned to Contractor as Code 1.
7 – 1258b	Piping Mechanical - Supply And Installation	a) 10% upon issuance by Contractor of Purchase Order or Subcontract. b) 50% upon receipt of Materials at Site. c) 20% on installation based on monthly earned progress as Approved by Company. d) 10% on Acceptance of Mechanical Completion Certificates. e) 10% on Acceptance (Code 1) of all associated document deliverables in accordance with the SDRL.	a) Provision of Purchase Order or Agreement by Contractor. b) Confirmation by Contractor that Materials have been received. c) Approval by Company of earned progress. d) Provision of Accepted Mechanical Completion Certificate by Contractor. e) Confirmation all documents are returned to Contractor as Code 1.
1259 – 1286.5	HVAC Systems - Supply and Installation	a) 10% upon issuance by Contractor of Purchase Order or Subcontract. b) 50% upon receipt of Materials at Site. c) 20% on installation based on monthly earned progress as Approved by Company. d) 10% on Acceptance of Mechanical Completion Certificates. e) 10% on Acceptance (Code 1) of all associated	a) Provision of Purchase Order or Agreement by Contractor. b) Confirmation by Contractor that Materials have been received. c) Approval by Company of earned progress. d) Provision of Accepted Mechanical Completion Certificate by Contractor. e) Confirmation all documents are returned to

Item #	Item Description	Payment Schedule	Criteria
		document deliverables in accordance with the SDRL.	Contractor as Code 1.
1287 - 1289	Electrical Engineering	a) 50% upon issuance of Electrical Engineering Subcontract. b) 50% on Approval for use (Code 1) of all engineering deliverables in accordance with the SDRL.	a) Provision of Subcontract. b) Confirmation all documents are returned to Contractor as Code 1.
1290 – 1575f	Electrical - Contractor Supplied - Supply and Installation	a) 10% upon issuance of Purchase Order or Subcontract. b) 50% upon receipt of Materials at Site. c) 20% on installation based on monthly earned progress as Approved by Company. d) 10% on Acceptance of Mechanical Completion Certificates. e) 10% on Acceptance (Code 1) of all associated document deliverables in accordance with the SDRL.	a) Provision of Purchase Order or Agreement by Contractor. b) Confirmation by Contractor that Materials have been received. c) Approval by Company of earned progress. d) Provision of Accepted Mechanical Completion Certificate by Contractor e) Confirmation all documents are returned to Contractor as Code 1.
1576 – 1587a	Electrical - Free Issued Materials - Assembly and Installation	a) 85% on installation based on monthly earned progress as Approved by Company. b) 5% on Acceptance of Mechanical Completion Certificates. c) 10% on Acceptance (Code 1) of all associated document deliverables in accordance with the SDRL.	a) Approval by Company of earned progress. b) Provision of Accepted Mechanical Completion Certificate by Contractor. c) Confirmation all documents are returned to Contractor as Code 1.
1588 - 1656	Powerhouse Architectural - Supply and Installation	a) 10% upon issuance by Contractor of Purchase Order or Subcontract. b) 50% upon receipt of Materials at Site. c) 20% on installation based on monthly earned progress as Approved by Company. d) 10% on Acceptance of Mechanical Completion Certificates. e) 10% on Acceptance (Code 1) of all associated document deliverables in accordance with the SDRL.	a) Provision of Purchase Order or Agreement by Contractor. b) Confirmation by Contractor that Materials have been received. c) Approval by Company of earned progress. d) Provision of Accepted Mechanical Completion Certificate by Contractor. e) Confirmation all documents are returned to Contractor as Code 1.
1657 - 1658	Diesel Generator System - Supply and Installation	a) 10% upon issuance by Contractor of Purchase Order or Subcontract. b) 60% upon receipt of Materials at Site.	a) Provision of Purchase Order or Agreement by Contractor. b) Confirmation by Contractor that Materials

Item #	Item Description	Payment Schedule	Criteria
		c) 10% on installation based on monthly earned progress as Approved by Company. d) 10% on Acceptance of Mechanical Completion Certificates. e) 10% on Acceptance (Code 1) of all associated document deliverables in accordance with the SDRL.	have been received. c) Approval by Company of earned progress. d) Provision of Accepted Mechanical Completion Certificate by Contractor. e) Confirmation all documents are returned to Contractor as Code 1.
1659 – 1673	Piping/Mechanical Systems – Single Contractor Dynamic Commissioning	100% on completion of Single Contractor Dynamic Commissioning.	By system and Engineer's Acceptance of handover documentation for RFO.
1674 – 1701.4	HVAC Systems – Single Contractor Dynamic Commissioning	100% on completion of Single Contractor Dynamic Commissioning.	By system and Engineer's Acceptance of handover documentation for RFO.
1702 – 1725	Electrical Systems – Single Contractor Dynamic Commissioning	100% on completion of Single Contractor Dynamic Commissioning.	By system and Engineer's Acceptance of handover documentation for RFO.
1726	Powerhouse Diesel Generator System – Single Contractor Dynamic Commissioning	100% on completion of Single Contractor Dynamic Commissioning	By system and Engineer's Acceptance of handover documentation for RFO.

APPENDIX C

SMALL TOOLS, CONSUMABLES AND PPE

The following lists include, but are not limited to, items that Company classifies as "Personal Protective Equipment", "Consumables", and "Small Tools", whether recoverable or non-recoverable.

1. PERSONAL PROTECTIVE EQUIPMENT

All personal protective equipment shall meet the requirements of Occupational Health and Safety Regulations.

APRON, WELDERS
BELT, SAFETY
BLANKET, FIRE
BLOCK, WELDING HELMET
BOOT, SAFETY, ALL TYPES
BRACKET, FOR FACE SHIELD
BRACKET, FIBER BROW, SAFETY SHIELD
CAPS, PLASTIC SAFETY (FOR REBAR)
CURTAIN, WELDER
DUST MASK
DISPOSABLE MASK
EYESHIELD, FOR BENCH GRINDER
FIRST AID SUPPLIES
FLARE, ROAD, NON-ELECTRIC
GLASSES, SAFETY
GLOVES, WORK, ALL TYPES
GOGGLES, SAFETY
GUARDS, SHIN
GUARDS, TOE, METAL W/STRAP
HALF FACE or FULL FACE RESPIRATOR WITH CARTRIDGES – ALL TYPES
HARD HAT
HEARING PROTECTION
HOOD, WELDING
INSECTICIDE
LANYARD FOR SAFETY BELTS
LENS, WELDING
LIFE LINE
LOCKS
MOUNTING VISOR AND KWIK-KLIP
PULLER, FUSE SAFETY
RAIN WEAR, JACKET AND OVERALLS
SAFETY HARNESS
SIREN, ELECTRIC
STRAP, CHIN
SWEAT BANDS
TABLET, SALT
VISOR, SHIELD, CLEAR
WELDING SHIELDS

2. CONSUMABLES

ABRASIVES
ACID
ADAPTORS, TOOL – all types
ADHESIVE
ALCOHOL
ANTIFREEZE
ANTI-SPLATTER SPRAY
APRON, WELDERS
ARBORS, HOLE SAW
AUGER, HAND - post hole digger
BADGES
BAG, DUST – for belt sander
BAG, BOLT
BANDS, SAFETY HAT
BARRELS, WATER or TRASH
BATTERY – flashlight and lantern
BELTING, BELT DRESSING
BINS, TRASH
BITS – small hand tool, all types
BLADES – small hand tool, all types
BLANKET – wool, rubber
BOX, CARDBOARD
BRACKET, FLOAT HANDLE
BRICK, RUBBING
BROOM – all types
BRUSH – all types
BUCKET – all types
BULB – blow out, dust
BULB – flashlight, lantern, light
BURLAP
CABLES, RIGGING
CAN, OIL
CAN, SAFETY
CARBIDE
CARBORUNDUM – Blocks, Stones Walk
CHAIN, SAFETY
CHAIN, LOADBINDER
CHALK
CHALK LINE BOX
CHAMOIS
CHARCOAL AND COKE
CHISEL – all types
CHOKER – all types
CHUCKS, TOOL – all types
CLAMP, CABLE
CLAMP, HOSE
CLEANER, DRAIN
CLEANER, HAND
CLEANER, TIP
CLIPS, WIRE ROPE
CLOTH, DROP, PAINTER'S
CLOTH, EMERY
CLOTH, STRAINING
COAL and COKE
COMPOUND - cleaning, pipe, thread grinding
EXPANDER, TUBEROLLS AND MANDRELS
FASTENERS
FEELER STOCK
FILE, METAL CUTTING
FILE, WOOD CUTTING
FILTER – for vacuum cleaner
FILTERS
FISHTAPE, HAND
FITTINGS, ALEMITE & HOSE
FLAMBEAU, KEROSENE
FLASHLIGHT
FLINT
FLUID CLEANING
FLUX - brazing, welding
FORK, SEED
FORM TIES
FRAME, HACKSAW
FUELS (for construction equipment)
FUNNELS, ALL TYPES
FUSE (except for permanent plant use)
GARBAGE BAGS
GASKETS, HOSE
GLOVES, WORK, all types
GLUE
GLYCERINE
GOGGLES, WORK, all types
GRAPHITE
GREASE
GRIPS, PLASTIC for pliers
GROMMETS
GUIDE, HINGE-BUTT for router
GUN, CAULKING
GUN, GREASE
HASPS
HATCHET
HINGES
HOE
HOOK, SNAP
HOOK, TIMBER
HOSE, AIR, ¾" /Dia. Max. (Air Tools Only)
HOSE WATER to ¾"
HOSE, GREASE, GUN
HOSE, TWIN WELDING
ICE
INK, LAYOUT – for Millwrights
IRON, CAULKING
IRON, PACKING
IRON, YARNING
JAW, BOLT CUTTER REPLACEMENT
JITTERBUG – Concrete Hand
JOINT RUNNER
KEEL (lumber crayon)
KEY, CHUCK
KEY, EJECTOR for Roto Hammers
PAD, POLISHING
PADLOCKS
PAINT (for erection marking)
PAINT STICK
PAN, DRAIN
PAPER – sand, toilet
PASTE – solder
PATTERNS
PENCIL, CARPENTER
PENS, WRITING, MARKING
PETROLEUM JELLY
PICK, CLAY
PLUG, PIPE TEST
PLUNGER, BATHROOM
POCKET, LINEMAN'S
POUCH, CANVAS
POUCH, ROD
POWDER, SCOURING
PULLER, WIRE
PUMICE
PUNCH AND CHISEL SETS
PUNCH, CONDUIT
PUNCH, PIN SET
PUTTY
RAGS
RAKE, GARDEN
RAKE, CONCRETE
RAKE, ROAD
REAMER, TAPER PIN (Hand Only)
RIGGING HOOKS
ROPE, MANILA
ROPE, POLYPROPYLENE
ROPE, WIRE
RULE - Extension, Wood, Fiberglass, Folding
RULE, TAPE
RUST PREVENTIVE
SANDBLAST NOZZLES
SCISSORS, ELECTRICIAN
SCRAPER, HAND
SCRAPER, SIDEWALK
SCRAPER, WALL
SCREEN CLOTH – Wire
SCREW RUNNER
SCREW STARTER
SCREWDRIVER, All Types
SHACKLES
SHEATH, PLUMB BOB
SHIMS
SILICONE SPRAY
SOAP
SOAP STONE
SOLDER
SOLVENT
SPONGE
STAKE - survey
STAPLES
STRING, NYLON

COMPOUND, SWEEPING
COMPOUND, WIRE PULLING
CONNECTORS – Cord, Cotter Pins
CORD, PLUMB BOB
CORD, SASH
CORK
CRAYON, LUMBER
CRAYON – Temperature Indicating
CREOSOTE
CUP – drinking
CUTTER WHEELS – tools, all types
DIE NUTS – Hexagon Rethread
DIES, BUTTON
DIES, KNOCKOUT
DIES, PIPE – for Hand Threaders Only
DIES, TMB – 8, Compression Tools
DIPPERS
DISC, GRINDING
DISINFECTANT
DISPENSER, PAPER CUP
DRESSING, BELT
DRILL BIT – Small Hand Tool, All Types
EDGER, CONCRETE HAND
ELECTRODE HOLDERS
KEY, HEX
LASHING, WIRE ROPE
LATCHES
LATTERNS, 6 VOLT LENS - Welding
LIGHTER, SPARK
LIME, MARKING
LINE, FISH
LITHARGE
LUBRICANT – thread cutting, electric wire pulling
LUGS
MARKER, METAL
MARKER, PIPE CONTOUR
MENDERS, HOSE
MIRROR, INSPECTION
MOP
NAILS
NIPPLES, HOSE
NOZZLE, WATER
NUT RUNNER
NUT SETTER
OFFICE SUPPLIES
OIL - all types
PACKING MATERIAL
TACKS
TAG, BLANK, WIRE TWIST
TARPAULIN
TAP, TAPER, HAND
TAPE - adhesive, masking, friction, rubber, plumbers, etc.
TEMPIL STICKS
THIMBLES, WIRE ROPE
TIP, TORCH WELDING
TOOL BOXES, BINS
TOOL, BRUSHING for Vacuum cleaner
TOOL, CREVICE, 15" for Vacuum
TOOL, MAJOR FLOOR, 14"
TOOL STEEL
TOWEL – Paper
TORCH, HEATING
TORCH, CUTTING
TROWEL, HAND
TRUNBUCKLES
TURPENTINE
TWINE
VISQUEEN – Non-reinforced
WASHERS
WASHING POWDER
WASHROOM SUPPLIES
WASTE – Cotton
WATER CANS
WELD ROD
WELDING GASES
WHEEL, DEPRESSED CENTER
WHEELBARROW, All Types
WHEEL ABRASIVE
WHEEL, WIRE
WICKS, LANTERN
WIRE - tie & miscellaneous
WOOL – steel
WRAP AROUNDS

3. SMALL TOOLS

ADAPTER - hose, pipe thread
ADZE
ANVIL
APRON
ARBOUR
AUGER, GASOLINE (Post Hole Digger)
AWL
AXE
BABBITT
BANDING MACHINE – Hand Type
BAR- claw, crow, pinch, etc.
BARREL- trash
BASE, MAGNETIC/DAILY TEST INDICATOR
BELT- safety w/strap
BENDER - hydraulic, manual
BENDER, CABLE
BENDER, PIPE
BENDER, TUBING
BENDER, LOAD
BEVEL
BEVELLER - load
BINDER - load
BIT - auger, carpenter
BLOCK - chain, rope, cable, etc.
BLOCKS, WOOD
)CKS, METAL – Snatch
)WER – Pneumatic Powered
BOB, PLUMB
BOSUN CHAIRS
BOX - tool box or tool bag
BOX, GANG (Craft Storage)
BRACE - ratchet
BROOMS
BURNER, WEED
CABLE - welding, electrode, ground, etc.
CALLIPERS
CANS
CART - concrete
CART, WELDING BOTTLE 2
CASTERS
CAULKING TOOL - yarning iron
CENTER FINDER SET - Wiggler
CHAIN - surveyor, measuring, steel loading
CHAIR, BOSUN'S
CHARGER - battery
CHUCK - taper, drill
CLAMP - pipe, aligning, saw, carpenter, etc.
CLIMBER – Adjustable w/Pad and Straps
CLIPPER - bolt
COOLER - drinking water
MBINATION SETS – 6" to 18"
DOOR HANGING KIT
DRESSER - grinding wheel
DRILL - all types: hand, electric, pneumatic
DRILL PRESS
DRILL STAND - bench
DYNAMOMETER
ELCOMETER - paint thickness gauge
EMBOSSER, TAPE, HAND
ETCHER, ELECTRIC
EXPANDER- tube
EXTENSION, SOCKET SET
EXTENSION CORD
EXTRACTOR - pipe & screw
FAN - electric
FILE - hand
FLARING TOOL
FLASHLIGHT - c/w bulb & batteries
FLATTER - blacksmith
FLOAT, CONCRETE – Hand Only
FORGE - blacksmith
FORK - barn
FULLER - blacksmith
FURNACE, PROPANE – Melting
GAD
GAUGE- drill, feeler, wire thickness, tire, etc.
GRINDER- electric, pneumatic
GRAB, PIPE OF 20"
GRINDER, ELECTRIC
GRIP- cable
GROOVING, TOOL
GUN- grease caulking, paint, heat (115V), pop rivet, powder actuated, soldering
HACKSAW, POWER
HAMMERS - all types: pneumatic, hand
HANDLES - all types
HATCHET & HANDLE - for hand threader sets
HATCHET, WRENCH
HEATER - portable: fuel, electric (115V), LP, Kerosene
HOD - brick, mortar
HOE
HOIST - portable, all types
HOOD - welding, sandblasting
HOOK - packing, eye, cant, lug, etc.
HORSES - mason, saw
INDICATOR - dial, test
IRON - tire
JACK - flange, hydraulic, mechanical, screw
MOVER - freight car, hand
NAILER, AIR
NIBBLER, SHEET METAL
NIPPER
NOTCHER, PIPE
NOZZLE - hose, weld
NUT - die, driver
OILER - can, hand
OVEN - welding rod
PAIL
PEDESTAL, GRINDER
PIN, BARREL
PIN, BULL
PIN, DRAFT
PINCER
PLANE – wood
PLANE, BENCH JACK
PLANE, BLOCK
PLANE, ELECTRIC
PLANE, VERSI
PLANNER, POWER BLOCK – Electric HD
PLIERS – all types
PLUMB BOB
POINT - trammel
POLE - pike, range
POT - melting, fire, welding rod, lead
POUCH - tool
PRESTOLITE OUTFIT
PROTRACTOR
PULLER, FUSE SAFETY
PULLER, WHEEL GEAR
PULLER- nail, wire, spike road
PULLEY, CABLE
PULLEY, WELL
PUMP- hand, barrel, sump, test
PUNCH- center, back out, arch, knockout, hob, gasket, sheet metal, stud, etc.
RADIO- portable, 2 way, intercom
RASP
REAMER- pipe, bridge burring, etc.
REAMER, INNER, OUTER – for copper tubing
REAMER, SPIRAL – Pipe only
REAMER, STRAIGHT – Pipe only
REEL, TIE WIRE
REGULATOR- welding gas
RESPIRATOR- dusts c/w refill
RIGGERS ROPE- manila, wire
RIVERTER, HAND
ROLLER, PIPE
ROLLER, paint
ROUTER, ELECTRIC
RULES- all types
RUSH DRILL
SOLDERING IRON
SPADE
SPEED, PORTABLE
SPIKE- marlin
SPRAYER, ORCHARD
SPREADER, FLANGE
SQUARE- combination, framing, etc.
SQUEEGEE
STAND, DRILL
STAND, GRINDER
STAND, PIPE
STAND, REEL, TELESCOPING SCREW
STAPLE- tacker
STAPLER, ELECTRIC OR HAND
STAR DRILL
STEAM HEATER
STENCIL- steel, brass, paper
STONE - OIL
STRAIGHT EDGE
STRAINER- air line
STRAPPER
STRIPPER- wire
SUPPORT, PIPE – Roller type
SWEDGING TOOL KIT
SWIVEL
TACHOMETER
TAMPER- hand, pneumatic
TANK, LP – 20# only
TAP- bolt, pipe, wrench
TAPE- steel measuring
TAPEWRITER, EMBOSSING – Hand type
TAPPER
TELEPHONE- hand set, electrician's testing
TEMPLATE, HINGE-BUTT
TESTER- battery, hardness, antifreeze, circuit, insulation, motor rotation, etc.
THIMBLE- pipe
THREADER- pipe chain, etc.
TONGS, BRICK CARRIER
TONGS, CHAIN
TONGS, PIPE
TONGS, SHEET METAL
TONG- blacksmith, pipe,
TOOL, FLARING
TOOL, PICK UP, MAG
TOOL, SOIL PIPE ASSEMBLY
TOOL- clamping (hose)
TOOLS- cement worker
TORCH- blow, soldering
Cutting, propane, acetylene, prestolite
TRANSFORMER- dry type
TROLLEY

NNECTOR - welding, cable
CONVEYOR - gravity, roller
CORD - electric extension
COUPLING - hose
CREEPER, FLOOR
CRIMPER, BAND
CRIMPER - electrician's
CRIMPING TOOL - Wire
CUTTER - bar, wire, pipe-hand, pipe-geared, gasket, etc.
CYLINDER, HYDRAULIC – for Porta Powers
DIE- pipe, bolt, c/w head, stock
DIGGER - hand, pneumatic
DIVIDER – wing
DIVIDER, SPRING TYPE
DOLLY, BARREL
DOLLY, BEAM
DOLLY, CATERPILLAR
DOLLY, MACHINE
DOLLY, PIPE
DOLLY, PRY
DOLLY, WAREHOUSE
DOLLY BAR - pivot
JIG - weld coupon bending test
KEY - welding, gas tank
KNIFE - draw, putty
KNOCKOUT, HAND
LADDER - steel, extension, etc.
LADLE - melting, lead
LANTERNS - all types
LEAD JOINT RUNNER
LEVEL - hand, line, etc.
LIGHT - portable, flood, drop
LINE - mason, chalk
LUBRICATOR - air line
MALLET
MANDREL - all types
MARKER, LIME, ROLLING
MATTOCK
MAUL
MEGGER METER
METER - vibration
METER, AMP – Clamp-on w/Case
METER, MILLIVOLT
METER, MOISTURE
METER, VOLT
MICROMETER
MIRROR, INSEPCTION
MITER BOX – Electric or hand
MORTISER, LOCK - Electric
SANDER- disc, belt
SAW - portable, all types: hand, power
SCALER, NEEDLE
SCRAPER- bearing, miscellaneous
SCREW STOP
SCREW PLANE (set)
SCRIBER SET- nail, rivet
SHARPENER, DRILL BIT
SHEAR- bar, tinners
SHEAR, ANGLE IRON
SHEARS, ELECTRIC, HAND
SHEARS, TRIMMING, ROTARY
SHEAVES, CABLE, TRAY METAL
SHEETING- plastic, paper
SHIELD- face
SHOVEL
SIREN, ELECTRIC
SLEEVE- morse, taper, shank
SLING- canvas, pipe, wire, rope, nylon
SNIP- tinner
SNIPS, AVIATION, HAND
SNIPS, METAL CUT, HAND
SNIPS, TRIM HAND
SOCKET for hand tools only
SOCKET SET
TROWEL
TRUCK- hand
TURNBUCKLE
TWISTER- wire
UMBRELLA
UNIVERSAL – for socket sets
VACUUM CLEANER, HD
VIBRATOR, CONCRETE- pneumatic, Electric
VISE, MACHINIST
VISE, PIPE
WEDGE
WELDING TOOLS
WELDING & CUTTING OUTFIT (Oxy/Acetelyne)
WHEEL- grinding
WHEELBARROW
WINCH- hand
WRENCHES- all types

APPENDIX D

PERSONNEL RATE SCHEDULE

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - DAYSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Boilermakers - Multiplier / Fixed Value			12.0%	3.50	10.90%	11.68	3.00	5.00			
Boilermakers - General foreperson	45.83	-	5.50	3.50	5.98	11.68		1.50	73.99	110.23	146.47
Boilermakers - foreperson	44.73	-	5.37	3.50	5.84	11.68		1.50	72.62	108.18	143.74
Boilermakers - Assistant foreperson	43.38	-	5.21	3.50	5.68	11.68		1.50	70.94	105.67	140.39
Boilermakers - Journeyman	41.68	-	5.00	3.50	5.47	11.68	3.00	5.00	75.33	109.00	142.66
Boilermakers - Helper	31.26	-	3.75	3.50	4.20	11.68	3.00	5.00	62.39	89.58	116.78
Boilermakers - Apprentice - Level 3	37.51	-	4.50	3.50	4.96	11.68	3.00	5.00	70.15	101.23	132.31
Boilermakers - Apprentice - Level 2	31.26	-	3.75	3.50	4.20	11.68	3.00	5.00	62.39	89.58	116.78
Boilermakers - Apprentice - Level 1	25.01	-	3.00	3.50	3.44	11.68	3.00	5.00	54.63	77.94	101.25
Bricklayers - Multiplier / Fixed Value			10.0%	3.50	10.90%	8.95	2.00	3.75			
Bricklayers - General foreperson	51.19	-	5.12	3.50	6.52	8.95		1.50	76.78	114.42	152.06
Bricklayers - foreperson	49.06	-	4.91	3.50	6.26	8.95		1.50	74.18	110.52	146.85
Bricklayers - Journeyman - Group 1	42.66	-	4.27	3.50	5.50	8.95	2.00	3.75	70.62	103.06	135.49
Bricklayers - Journeyman - Group 2	39.25	-	3.92	3.50	5.09	8.95	2.00	3.75	66.46	96.82	127.17
Bricklayers - Journeyman - Group 3	41.02	-	4.10	3.50	5.30	8.95	2.00	3.75	68.62	100.06	131.49
Bricklayers - Apprentice - 1st 6 months	23.89	-	2.39	3.50	3.25	8.95	2.00	3.75	47.72	68.71	89.70
Bricklayers - Apprentice - 2nd 6 months	26.45	-	2.64	3.50	3.55	8.95	2.00	3.75	50.85	73.39	95.94
Bricklayers - Apprentice - 3rd 6 months	29.01	-	2.90	3.50	3.86	8.95	2.00	3.75	53.97	78.08	102.19
Bricklayers - Apprentice - 4th 6 months	31.57	-	3.16	3.50	4.17	8.95	2.00	3.75	57.09	82.76	108.43
Bricklayers - Apprentice - 5th 6 months	34.13	-	3.41	3.50	4.47	8.95	2.00	3.75	60.21	87.44	114.68
Bricklayers - Apprentice - 6th 6 months	36.26	-	3.63	3.50	4.73	8.95	2.00	3.75	62.82	91.35	119.88
Bricklayers - Apprentice - 7th 6 months	38.39	-	3.84	3.50	4.99	8.95	2.00	3.75	65.42	95.25	125.08
Bricklayers - Apprentice - 8th 6 months	40.53	-	4.05	3.50	5.24	8.95	2.00	3.75	68.02	99.15	130.29
Carpenters - Multiplier / Fixed Value			13%	3.50	10.90%	11.75	2.00	3.75			
Carpenters - General foreperson	45.07	-	5.86	3.50	5.93	11.75		1.50	73.61	109.67	145.73
Carpenters - Non-working foreperson	43.19	-	5.61	3.50	5.70	11.75		1.50	71.26	106.14	141.01
Carpenters - Working foreperson	41.32	-	5.37	3.50	5.47	11.75	2.00	3.75	73.16	106.87	140.58
Carpenters - Journeyman carpenter welder scaffolder	37.56	-	4.88	3.50	5.01	11.75	2.00	3.75	68.45	99.80	131.15
Carpenters - Helper	22.54	-	2.93	3.50	3.16	11.75	2.00	3.75	49.63	71.57	93.51
Carpenters - Apprentice - 1	24.41	-	3.17	3.50	3.39	11.75	2.00	3.75	51.97	75.08	98.19
Carpenters - Apprentice - 2	26.29	-	3.42	3.50	3.62	11.75	2.00	3.75	54.33	78.61	102.90
Carpenters - Apprentice - 3	30.05	-	3.91	3.50	4.08	11.75	2.00	3.75	59.04	85.69	112.33
Carpenters - Apprentice - 4	33.80	-	4.39	3.50	4.55	11.75	2.00	3.75	63.74	92.73	121.73
Electricians - Multiplier / Fixed Value			13.0%	3.50	10.90%	9.75	2.00	3.75			
Electricians - General foreperson	48.93	-	6.36	3.50	6.41	9.75		1.50	76.45	113.93	151.40
Electricians - Non-working foreperson	46.81	-	6.09	3.50	6.15	9.75		1.50	73.79	109.94	146.09
Electricians - Working foreperson	44.68	-	5.81	3.50	5.89	9.75	2.00	3.75	75.37	110.18	144.99
Electricians - Apprentice/Journeyman electrician welder/welder	44.68	-	5.81	3.50	5.89	9.75	2.00	3.75	75.37	110.18	144.99
Electricians - Journeyperson	42.55	-	5.53	3.50	5.62	9.75	2.00	3.75	72.70	106.18	139.66
Electricians - Apprentice - 1st year	23.40	-	3.04	3.50	3.26	9.75	2.00	3.75	48.71	70.19	91.67

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - DAYSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Electricians - Apprentice - 2nd year	27.66	-	3.60	3.50	3.79	9.75	2.00	3.75	54.04	78.19	102.33
Electricians - Apprentice - 3rd year	29.79	-	3.87	3.50	4.05	9.75	2.00	3.75	56.71	82.20	107.68
Electricians - Apprentice - 4th year	34.04	-	4.43	3.50	4.57	9.75	2.00	3.75	62.04	90.18	118.33
Hotel and Restaurant - Multiplier / Fixed Value			13.0%	1.00	10.90%	16.04	2.00	3.75			
Hotel and Restaurant - Group 1 - Security	40.45	-	5.26	1.00	5.09	16.04	2.00	3.75	73.59	107.51	141.43
Hotel and Restaurant - Group 2 - Security	38.91	-	5.06	1.00	4.90	16.04	2.00	3.75	71.66	104.61	137.57
Hotel and Restaurant - Group 3 - Security	37.43	-	4.87	1.00	4.72	16.04	2.00	3.75	69.81	101.83	133.86
Hotel and Restaurant - Group 1	41.39	-	5.38	1.00	5.21	16.04	2.00	3.75	74.77	109.27	143.78
Hotel and Restaurant - Group 2	38.42	-	4.99	1.00	4.84	16.04	2.00	3.75	71.05	103.70	136.34
Hotel and Restaurant - Group 3	37.43	-	4.87	1.00	4.72	16.04	2.00	3.75	69.81	101.83	133.86
Hotel and Restaurant - Group 4	36.40	-	4.73	1.00	4.59	16.04	2.00	3.75	68.51	99.89	131.28
Hotel and Restaurant - Group 5	35.92	-	4.67	1.00	4.53	16.04	2.00	3.75	67.91	98.99	130.07
Hotel and Restaurant - Group 6	35.42	-	4.60	1.00	4.47	16.04	2.00	3.75	67.29	98.06	128.82
Hotel and Restaurant - Group 7	34.40	-	4.47	1.00	4.35	16.04	2.00	3.75	66.01	96.13	126.26
Insulators - Multiplier / Fixed Value			13.0%	3.50	10.90%	10.65	2.00	3.75			
Insulators - General foreperson	44.58	-	5.80	3.50	5.87	10.65		1.50	71.90	107.09	142.29
Insulators - Non-working foreperson	42.08	-	5.47	3.50	5.57	10.65		1.50	68.76	102.39	136.02
Insulators - Working foreperson	41.33	-	5.37	3.50	5.47	10.65	2.00	3.75	72.07	105.23	138.39
Insulators - Journeyman mechanic	40.08	-	5.21	3.50	5.32	10.65	2.00	3.75	70.51	102.88	135.26
Insulators - Apprentice - 1st year	24.05	-	3.13	3.50	3.34	10.65	2.00	3.75	50.42	72.75	95.08
Insulators - Apprentice - 2nd year	26.05	-	3.39	3.50	3.59	10.65	2.00	3.75	52.93	76.52	100.10
Insulators - Apprentice - 3rd year	30.06	-	3.91	3.50	4.08	10.65	2.00	3.75	57.95	84.05	110.15
Insulators - Apprentice - 4th year	34.07	-	4.43	3.50	4.58	10.65	2.00	3.75	62.97	91.58	120.19
Ironworkers - Multiplier / Fixed Value			13.5%	3.50	10.90%	10.28	3.00	5.00			
Ironworkers - Structural General foreperson	49.39	-	6.67	3.50	6.49	10.28		1.50	77.84	116.01	154.17
Ironworkers - Structural foreperson	47.33	-	6.39	3.50	6.24	10.28		1.50	75.24	112.11	148.98
Ironworkers - Structural Connectors	42.07	-	5.68	3.50	5.59	10.28	3.00	5.00	75.12	108.68	142.24
Ironworkers - Structural Journeyman	41.16	-	5.56	3.50	5.47	10.28	3.00	5.00	73.97	106.96	139.95
Ironworkers - Structural Apprentice - 1st 1,000 hrs	28.81	-	3.89	3.50	3.95	10.28	3.00	5.00	58.43	83.65	108.86
Ironworkers - Structural Apprentice - 2nd 1,000 hrs	32.93	-	4.45	3.50	4.46	10.28	3.00	5.00	63.61	91.42	119.22
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	37.04	-	5.00	3.50	4.96	10.28	3.00	5.00	68.79	99.18	129.57
Ironworkers - Structural Apprentice - 4th 1,000 hrs	39.10	-	5.28	3.50	5.22	10.28	3.00	5.00	71.38	103.08	134.77
Ironworkers - Rebar General foreperson	48.01	-	6.48	3.50	6.32	10.28		1.50	76.10	113.40	150.70
Ironworkers - Rebar foreperson	46.01	-	6.21	3.50	6.08	10.28		1.50	73.58	109.62	145.66
Ironworkers - Rebar Journeyman	40.01	-	5.40	3.50	5.33	10.28	3.00	5.00	72.53	104.79	137.05
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	28.01	-	3.78	3.50	3.85	10.28	3.00	5.00	57.42	82.13	106.83
Ironworkers - Rebar Apprentice - 2nd 1,000 hrs	32.01	-	4.32	3.50	4.34	10.28	3.00	5.00	62.45	89.68	116.91
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	36.01	-	4.86	3.50	4.84	10.28	3.00	5.00	67.49	97.24	126.98
Ironworkers - Rebar Apprentice - 4th 1,000 hrs	38.01	-	5.13	3.50	5.09	10.28	3.00	5.00	70.01	101.01	132.02
Labourers - Multiplier / Fixed Value			13.0%	3.50	10.90%	11.59	2.00	3.75			

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - DAYSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Labourers - Class 1	36.80	-	4.78	3.50	4.92	11.59	2.00	3.75	67.34	98.13	128.93
Labourers - Class 2	36.84	-	4.79	3.50	4.92	11.59	2.00	3.75	67.39	98.21	129.03
Labourers - Class 3	36.90	-	4.80	3.50	4.93	11.59	2.00	3.75	67.46	98.32	129.18
Labourers - Class 4	36.95	-	4.80	3.50	4.93	11.59	2.00	3.75	67.53	98.42	129.30
Labourers - Class 5	37.00	-	4.81	3.50	4.94	11.59	2.00	3.75	67.59	98.51	129.43
Labourers - Class 6	37.05	-	4.82	3.50	4.95	11.59	2.00	3.75	67.65	98.60	129.55
Labourers - Class 7	37.23	-	4.84	3.50	4.97	11.59	2.00	3.75	67.88	98.94	130.01
Labourers - Class 8	37.30	-	4.85	3.50	4.98	11.59	2.00	3.75	67.97	99.07	130.18
Labourers - Class 9	37.75	-	4.91	3.50	5.03	11.59	2.00	3.75	68.53	99.92	131.31
Labourers - Class 10	37.85	-	4.92	3.50	5.04	11.59	2.00	3.75	68.65	100.11	131.56
Labourers - Class 11	42.85	-	5.57	3.50	5.66	11.59	2.00	3.75	74.92	109.51	144.09
Labourers - Class 1 - foreperson	38.55	-	5.01	3.50	5.13	11.59		1.50	65.28	97.17	129.06
Labourers - Class 2 - foreperson	38.59	-	5.02	3.50	5.14	11.59		1.50	65.33	97.25	129.16
Labourers - Class 3 - foreperson	38.65	-	5.02	3.50	5.14	11.59		1.50	65.41	97.36	129.31
Labourers - Class 4 - foreperson	38.70	-	5.03	3.50	5.15	11.59		1.50	65.47	97.46	129.44
Labourers - Class 5 - foreperson	38.75	-	5.04	3.50	5.16	11.59		1.50	65.53	97.55	129.57
Labourers - Class 6 - foreperson	38.80	-	5.04	3.50	5.16	11.59		1.50	65.60	97.64	129.69
Labourers - Class 7 - foreperson	38.98	-	5.07	3.50	5.18	11.59		1.50	65.82	97.98	130.14
Labourers - Class 8 - foreperson	39.05	-	5.08	3.50	5.19	11.59		1.50	65.91	98.11	130.32
Labourers - Class 9 - foreperson	39.50	-	5.14	3.50	5.25	11.59		1.50	66.47	98.96	131.45
Labourers - Class 10 - foreperson	39.60	-	5.15	3.50	5.26	11.59		1.50	66.60	99.15	131.70
Labourers - Class 11 - foreperson	44.60	-	5.80	3.50	5.88	11.59		1.50	72.86	108.55	144.23
Labourers - Class 1 - General foreperson	39.30	-	5.11	3.50	5.22	11.59		1.50	66.22	98.58	130.94
Labourers - Class 2 - General foreperson	39.34	-	5.11	3.50	5.23	11.59		1.50	66.27	98.66	131.04
Labourers - Class 3 - General foreperson	39.40	-	5.12	3.50	5.24	11.59		1.50	66.35	98.77	131.19
Labourers - Class 4 - General foreperson	39.45	-	5.13	3.50	5.24	11.59		1.50	66.41	98.87	131.32
Labourers - Class 5 - General foreperson	39.50	-	5.14	3.50	5.25	11.59		1.50	66.47	98.96	131.45
Labourers - Class 6 - General foreperson	39.55	-	5.14	3.50	5.25	11.59		1.50	66.54	99.05	131.57
Labourers - Class 7 - General foreperson	39.73	-	5.16	3.50	5.28	11.59		1.50	66.76	99.39	132.02
Labourers - Class 8 - General foreperson	39.80	-	5.17	3.50	5.28	11.59		1.50	66.85	99.52	132.20
Labourers - Class 9 - General foreperson	40.25	-	5.23	3.50	5.34	11.59		1.50	67.41	100.37	133.33
Labourers - Class 10 - General foreperson	40.35	-	5.25	3.50	5.35	11.59		1.50	67.54	100.56	133.58
Labourers - Class 11 - General foreperson	45.35	-	5.90	3.50	5.97	11.59		1.50	73.80	109.96	146.11
Linespersons - Multiplier / Fixed Value			13.0%	3.50	10.90%	8.15	2.00	3.75			
Linespersons - General foreperson	42.14	-	5.48	3.50	5.57	8.15		1.50	66.35	98.77	131.19
Linespersons - foreperson	40.14	-	5.22	3.50	5.33	8.15		1.50	63.84	95.01	126.18
Linespersons - Lead linesman	39.62	-	5.15	3.50	5.26	8.15	2.00	3.75	67.44	98.28	129.13
Linespersons - Utility worker	32.79	-	4.26	3.50	4.42	8.15	2.00	3.75	58.88	85.44	112.01
Linespersons - Mechanic	36.15	-	4.70	3.50	4.84	8.15	2.00	3.75	63.09	91.76	120.43
Linespersons - Operator + Driller/blaster	35.48	-	4.61	3.50	4.75	8.15	2.00	3.75	62.25	90.50	118.75
Linespersons - Full-time storekeeper	34.74	-	4.52	3.50	4.66	8.15	2.00	3.75	61.32	89.11	116.90
Linespersons - Instrument Person	33.38	-	4.34	3.50	4.49	8.15	2.00	3.75	59.62	86.55	113.49
Linespersons - Journeyman linesman or splicer	38.94	-	5.06	3.50	5.18	8.15	2.00	3.75	66.59	97.00	127.42

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - DAYSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Linespersons - Apprentice - 1st year	21.42	-	2.78	3.50	3.02	8.15	2.00	3.75	44.62	64.06	83.50
Linespersons - Apprentice - 2nd year	25.31	-	3.29	3.50	3.50	8.15	2.00	3.75	49.50	71.38	93.26
Linespersons - Apprentice - 3rd year	27.26	-	3.54	3.50	3.74	8.15	2.00	3.75	51.95	75.04	98.14
Linespersons - Apprentice - 4th year	31.16	-	4.05	3.50	4.22	8.15	2.00	3.75	56.83	82.36	107.90
Millwrights - Multiplier / Fixed Value			13.0%	3.50	10.90%		2.50	5.00			
Millwrights - General foreperson	47.95	-	6.23	3.50	6.29	14.10		1.50	79.57	118.61	157.64
Millwrights - Non-working foreperson	45.95	-	5.97	3.50	6.04	13.70		1.50	76.67	114.25	151.83
Millwrights - Working foreperson	43.96	-	5.71	3.50	5.80	13.29	2.50	5.00	79.76	115.90	152.03
Millwrights - Journeymen millwright, welder, machinist	39.96	-	5.20	3.50	5.30	12.48	2.50	5.00	73.95	107.17	140.39
Millwrights - Apprentice 0-1000 hrs	23.98	-	3.12	3.50	3.34	9.23	2.50	5.00	50.66	72.24	93.82
Millwrights - Apprentice 1001-2000 hrs	25.97	-	3.38	3.50	3.58	9.63	2.50	5.00	53.56	76.59	99.61
Millwrights - Apprentice 2001-3000 hrs	27.97	-	3.64	3.50	3.83	10.04	2.50	5.00	56.47	80.96	105.45
Millwrights - Apprentice 3001-4000 hrs	29.97	-	3.90	3.50	4.07	10.45	2.50	5.00	59.39	85.34	111.29
Millwrights - Apprentice 4001-5000 hrs	31.97	-	4.16	3.50	4.32	10.85	2.50	5.00	62.30	89.70	117.10
Millwrights - Apprentice 5001-6000 hrs	33.97	-	4.42	3.50	4.57	11.26	2.50	5.00	65.21	94.07	122.93
Millwrights - Apprentice 6001-7000 hrs	35.96	-	4.67	3.50	4.81	11.67	2.50	5.00	68.12	98.42	128.73
Millwrights - Apprentice 7001-8000 hrs	37.96	-	4.93	3.50	5.06	12.07	2.50	5.00	71.02	102.78	134.55
Operating Engineers - Multiplier / Fixed Value			13.0%	3.50	10.90%	12.65	2.00	3.75			
Operating Engineers - Group 1 - JP	39.28	-	5.11	3.50	5.22	12.65	2.00	3.75	71.51	104.39	137.26
Operating Engineers - Group 1 - General foreperson	47.14	-	6.13	3.50	6.19	12.65		1.50	77.10	114.90	152.70
Operating Engineers - Group 1 - Non-Working foreperson	45.17	-	5.87	3.50	5.95	12.65		1.50	74.64	111.21	147.78
Operating Engineers - Group 1 - Working foreperson	45.17	-	5.87	3.50	5.95	12.65	2.00	3.75	78.89	115.46	152.03
Operating Engineers - Group 2 - JP	38.28	-	4.98	3.50	5.10	12.65	2.00	3.75	70.25	102.51	134.76
Operating Engineers - Group 2 - General foreperson	45.94	-	5.97	3.50	6.04	12.65		1.50	75.60	112.65	149.70
Operating Engineers - Group 2 - Non-Working foreperson	44.02	-	5.72	3.50	5.80	12.65		1.50	73.20	109.05	144.90
Operating Engineers - Group 2 - Working foreperson	44.02	-	5.72	3.50	5.80	12.65	2.00	3.75	77.45	113.30	149.15
Operating Engineers - Group 3 - JP	37.88	-	4.92	3.50	5.05	12.65	2.00	3.75	69.75	101.75	133.76
Operating Engineers - Group 3 - General foreperson	45.46	-	5.91	3.50	5.98	12.65		1.50	75.00	111.75	148.49
Operating Engineers - Group 3 - Non-Working foreperson	43.56	-	5.66	3.50	5.75	12.65		1.50	72.62	108.18	143.75
Operating Engineers - Group 3 - Working foreperson	43.56	-	5.66	3.50	5.75	12.65	2.00	3.75	76.87	112.43	148.00
Operating Engineers - Group 4 - JP	36.89	-	4.80	3.50	4.93	12.65	2.00	3.75	68.51	99.89	131.27
Operating Engineers - Group 4 - General foreperson	44.27	-	5.75	3.50	5.84	12.65		1.50	73.51	109.51	145.52
Operating Engineers - Group 4 - Non-Working foreperson	42.42	-	5.52	3.50	5.61	12.65		1.50	71.20	106.04	140.89
Operating Engineers - Group 4 - Working foreperson	42.42	-	5.52	3.50	5.61	12.65	2.00	3.75	75.45	110.29	145.14
Operating Engineers - Group 5 - JP	36.15	-	4.70	3.50	4.83	12.65	2.00	3.75	67.58	98.50	129.42
Operating Engineers - Group 5 - General foreperson	43.38	-	5.64	3.50	5.73	12.65		1.50	72.40	107.84	143.29
Operating Engineers - Group 5 - Non-Working foreperson	41.57	-	5.40	3.50	5.50	12.65		1.50	70.13	104.44	138.76
Operating Engineers - Group 5 - Working foreperson	41.57	-	5.40	3.50	5.50	12.65	2.00	3.75	74.38	108.69	143.01
Operating Engineers - 1st period	22.97	-	2.99	3.50	3.21	12.65	2.00	3.75	51.07	73.73	96.40
Operating Engineers - 2nd period	24.88	-	3.23	3.50	3.45	12.65	2.00	3.75	53.46	77.32	101.17
Operating Engineers - 3rd period	26.80	-	3.48	3.50	3.68	12.65	2.00	3.75	55.87	80.93	105.99
Operating Engineers - 4th period	28.71	-	3.73	3.50	3.92	12.65	2.00	3.75	58.26	84.52	110.77

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - DAYSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+(($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Operating Engineers - 5th period	30.62	-	3.98	3.50	4.15	12.65	2.00	3.75	60.65	88.11	115.56
Operating Engineers - 6th period	34.45	-	4.48	3.50	4.63	12.65	2.00	3.75	65.45	95.31	125.16
Operating Engineers - Clerical Group 1	30.93	-	4.02	3.50	4.19	12.65	2.00	3.75	61.04	88.69	116.34
Operating Engineers - Clerical Group 2	33.15	-	4.31	3.50	4.47	12.65	2.00	3.75	63.83	92.86	121.90
Operating Engineers - Clerical Group 3	34.49	-	4.48	3.50	4.63	12.65	2.00	3.75	65.51	95.38	125.26
Painters - Multiplier / Fixed Value			13.0%	3.50	10.90%	10.25	2.00	4.00			
Painters - General foreperson - Group 1	40.75	-	5.30	3.50	5.40	10.25		1.50	66.70	99.30	131.90
Painters - Non-working foreperson - Group 1	40.25	-	5.23	3.50	5.34	10.25		1.50	66.07	98.36	130.65
Painters - Chargehands and working foremen - Group 1	39.75	-	5.17	3.50	5.28	10.25	2.00	4.00	69.95	101.92	133.89
Painters - Group 1	38.25	-	4.97	3.50	5.09	10.25	2.00	4.00	68.07	99.10	130.13
Painters - General foreperson - Group 2	43.75	-	5.69	3.50	5.77	10.25		1.50	70.46	104.94	139.42
Painters - Non-working foreperson - Group 2	43.25	-	5.62	3.50	5.71	10.25		1.50	69.83	104.00	138.16
Painters - Chargehands and working foremen - Group 2	42.75	-	5.56	3.50	5.65	10.25	2.00	4.00	73.71	107.56	141.41
Painters - Group 2	41.25	-	5.36	3.50	5.46	10.25	2.00	4.00	71.83	104.74	137.65
Painters - Apprentice - 1st year	22.95	-	2.98	3.50	3.21	10.25	2.00	4.00	48.89	70.34	91.78
Painters - Apprentice - 2nd year	28.69	-	3.73	3.50	3.92	10.25	2.00	4.00	56.09	81.13	106.17
Painters - Apprentice - 3rd year	34.43	-	4.48	3.50	4.62	10.25	2.00	4.00	63.28	91.92	120.56
Plumbers and pipefitters - Multiplier / Fixed Value			10.0%	3.50	10.90%	13.08	3.00	5.00			
Plumbers and pipefitters - General foreperson	50.68	-	5.07	3.50	6.46	13.08		1.50	80.29	119.68	159.07
Plumbers and pipefitters - foreperson	48.56	-	4.86	3.50	6.21	13.08		1.50	77.70	115.81	153.91
Plumbers and pipefitters - Journeyman	42.23	-	4.22	3.50	5.45	13.08	3.00	5.00	76.48	110.71	144.95
Plumbers and pipefitters - Apprentice - 2nd year	27.45	-	2.74	3.50	3.67	13.08	3.00	5.00	58.45	83.67	108.89
Plumbers and pipefitters - Apprentice - 3rd year	31.67	-	3.17	3.50	4.18	13.08	3.00	5.00	63.60	91.40	119.20
Plumbers and pipefitters - Apprentice - 4th year	35.90	-	3.59	3.50	4.69	13.08	3.00	5.00	68.76	99.14	129.51
Sheet metal - Multiplier / Fixed Value			13.0%	3.50	10.90%	9.26	2.00	3.75			
Sheet metal - General foreperson	46.72	-	6.07	3.50	6.14	9.26		1.50	73.19	109.03	144.88
Sheet metal - Non-working foreperson	45.72	-	5.94	3.50	6.01	9.26		1.50	71.93	107.15	142.37
Sheet metal - Working foreperson	44.72	-	5.81	3.50	5.89	9.26	2.00	3.75	74.93	109.52	144.11
Sheet metal - Journeyman	42.72	-	5.55	3.50	5.64	9.26	2.00	3.75	72.42	105.76	139.10
Sheet metal - Welder	43.72	-	5.68	3.50	5.77	9.26	2.00	3.75	73.68	107.64	141.61
Sheet metal - Apprentice - 2nd year	25.63	-	3.33	3.50	3.54	9.26	2.00	3.75	51.01	73.64	96.27
Sheet metal - Apprentice - 3rd year	32.04	-	4.16	3.50	4.33	9.26	2.00	3.75	59.04	85.69	112.33
Sheet metal - Apprentice - 4th year	36.31	-	4.72	3.50	4.85	9.26	2.00	3.75	64.39	93.72	123.04
Teamsters - Multiplier / Fixed Value			13.0%	3.50	10.90%	10.55	2.00	3.75			
Teamsters - Group 1 teamster	37.85	-	4.92	3.50	5.04	10.55	2.00	3.75	67.61	98.54	129.47
Teamsters - Working foreperson Group 1	39.35	-	5.11	3.50	5.23	10.55	2.00	3.75	69.49	101.36	133.23
Teamsters - Non-working foreperson Group 1	39.35	-	5.11	3.50	5.23	10.55		1.50	65.24	97.11	128.98
Teamsters - General foreperson Group 1	39.85	-	5.18	3.50	5.29	10.55		1.50	65.87	98.05	130.23
Teamsters - Group 2 teamster	37.63	-	4.89	3.50	5.02	10.55	2.00	3.75	67.34	98.13	128.93
Teamsters - Working foreperson Group 2	39.13	-	5.09	3.50	5.20	10.55	2.00	3.75	69.22	100.95	132.69

Appendix D
Personnel Rate Schedule
Agreement Number: CH0031-001

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - DAYSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference Formula	(B)	(C) fixed	(D) =sum(B?:C?)*C$?	(E) fixed	(F) =sum(B?:E?)*F$?	(G) fixed	(H) fixed	(I) fixed	(J) =sum(B?:I?)	(K) =((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	(L) =((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Teamsters - Non-working foreperson Group 2	39.13	-	5.09	3.50	5.20	10.55		1.50	64.97	96.70	128.44
Teamsters - General foreperson Group 2	39.63	-	5.15	3.50	5.26	10.55		1.50	65.60	97.64	129.69
Teamsters - Group 3 teamster	37.42	-	4.86	3.50	4.99	10.55	2.00	3.75	67.08	97.74	128.40
Teamsters - Working foreperson Group 3	38.92	-	5.06	3.50	5.18	10.55	2.00	3.75	68.96	100.56	132.16
Teamsters - Non-working foreperson Group 3	38.92	-	5.06	3.50	5.18	10.55		1.50	64.71	96.31	127.91
Teamsters - General foreperson Group 3	39.42	-	5.12	3.50	5.24	10.55		1.50	65.33	97.25	129.16
Teamsters - Group 4 teamster	37.85	-	4.92	3.50	5.04	10.55	2.00	3.75	67.61	98.54	129.47
Teamsters - Working foreperson Group 4	39.35	-	5.11	3.50	5.23	10.55	2.00	3.75	69.49	101.36	133.23
Teamsters - Non-working foreperson Group 4	39.35	-	5.11	3.50	5.23	10.55		1.50	65.24	97.11	128.98
Teamsters - General foreperson Group 4	39.85	-	5.18	3.50	5.29	10.55		1.50	65.87	98.05	130.23
Teamsters - Group 5 teamster	43.25	-	5.62	3.50	5.71	10.55	2.00	3.75	74.38	108.70	143.01
Teamsters - Working foreperson Group 5	44.75	-	5.82	3.50	5.89	10.55	2.00	3.75	76.26	111.52	146.77
Teamsters - Non-working foreperson Group 5	44.75	-	5.82	3.50	5.89	10.55		1.50	72.01	107.27	142.52
Teamsters - General foreperson Group 5	45.25	-	5.88	3.50	5.96	10.55		1.50	72.64	108.21	143.78
Teamsters - Group 6 teamster	48.96	-	6.36	3.50	6.41	10.55	2.00	3.75	81.54	119.43	157.33
Teamsters - Working foreperson Group 6	50.46	-	6.56	3.50	6.60	10.55	2.00	3.75	83.42	122.25	161.09
Teamsters - Non-working foreperson Group 6	50.46	-	6.56	3.50	6.60	10.55		1.50	79.17	118.00	156.84
Teamsters - General foreperson Group 6	50.96	-	6.62	3.50	6.66	10.55		1.50	79.79	118.94	158.09
Teamsters - Group 4 Apprentice 1	26.49	-	3.44	3.50	3.65	10.55	2.00	3.75	53.38	77.20	101.01
Teamsters - Group 4 Apprentice 2	30.28	-	3.94	3.50	4.11	10.55	2.00	3.75	58.12	84.31	110.50
Teamsters - Group 4 Apprentice 3	34.06	-	4.43	3.50	4.58	10.55	2.00	3.75	62.87	91.43	119.98
Elevator Constructors - Multiplier / Fixed Value			12.0%	3.50	10.90%	4.09	2.00	3.75			
Elevator Constructors - Mechanic	45.55	-	5.47	3.50	5.94	4.09	2.00	3.75	70.30	102.57	134.85
Elevator Constructors - Mechanic in charge I	51.24	-	6.15	3.50	6.64	4.09	2.00	3.75	77.37	113.18	148.98
Elevator Constructors - Mechanic in charge II	52.38	-	6.29	3.50	6.78	4.09	2.00	3.75	78.78	115.30	151.82
Elevator Constructors - Probationary Helper I	22.78	-	2.73	3.50	3.16	4.09	2.00	3.75	42.02	60.15	78.28
Elevator Constructors - Probationary Helper II	25.05	-	3.01	3.50	3.44	4.09	2.00	3.75	44.83	64.38	83.92
Elevator Constructors - Helper I	31.89	-	3.83	3.50	4.28	4.09	2.00	3.75	53.33	77.12	100.91
Elevator Constructors - Helper II	34.16	-	4.10	3.50	4.55	4.09	2.00	3.75	56.15	81.35	106.54
Elevator Constructors - Improver helper	36.44	-	4.37	3.50	4.83	4.09	2.00	3.75	58.98	85.60	112.22

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Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?)) +SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM ($H?:$I?)
Boilermakers - Multiplier / Fixed Value		3.00	12.0%	3.50	10.90%	11.68	3.00	5.00			
Boilermakers - General foreperson	45.83	3.00	5.86	3.50	6.34	11.68		1.50	77.71	114.14	150.57
Boilermakers - foreperson	44.73	3.00	5.73	3.50	6.21	11.68		1.50	76.35	112.09	147.83
Boilermakers - Assistant foreperson	43.38	3.00	5.57	3.50	6.04	11.68		1.50	74.67	109.58	144.48
Boilermakers - Journeyman	41.68	3.00	5.36	3.50	5.84	11.68	3.00	5.00	79.06	112.91	146.76
Boilermakers - Helper	31.26	3.00	4.11	3.50	4.56	11.68	3.00	5.00	66.12	93.49	120.87
Boilermakers - Apprentice - Level 3	37.51	3.00	4.86	3.50	5.33	11.68	3.00	5.00	73.88	105.14	136.40
Boilermakers - Apprentice - Level 2	31.26	3.00	4.11	3.50	4.56	11.68	3.00	5.00	66.12	93.49	120.87
Boilermakers - Apprentice - Level 1	25.01	3.00	3.36	3.50	3.80	11.68	3.00	5.00	58.35	81.85	105.35
Bricklayers - Multiplier / Fixed Value		3.00	10.0%	3.50	10.90%	8.95	2.00	3.75			
Bricklayers - General foreperson	51.19	3.00	5.42	3.50	6.88	8.95		1.50	80.44	118.26	156.08
Bricklayers - foreperson	49.06	3.00	5.21	3.50	6.62	8.95		1.50	77.84	114.36	150.87
Bricklayers - Journeyman - Group 1	42.66	3.00	4.57	3.50	5.86	8.95	2.00	3.75	74.28	106.90	139.51
Bricklayers - Journeyman - Group 2	39.25	3.00	4.22	3.50	5.45	8.95	2.00	3.75	70.12	100.66	131.19
Bricklayers - Journeyman - Group 3	41.02	3.00	4.40	3.50	5.66	8.95	2.00	3.75	72.28	103.90	135.51
Bricklayers - Apprentice - 1st 6 months	23.89	3.00	2.69	3.50	3.61	8.95	2.00	3.75	51.38	72.55	93.72
Bricklayers - Apprentice - 2nd 6 months	26.45	3.00	2.94	3.50	3.91	8.95	2.00	3.75	54.51	77.23	99.96
Bricklayers - Apprentice - 3rd 6 months	29.01	3.00	3.20	3.50	4.22	8.95	2.00	3.75	57.63	81.92	106.21
Bricklayers - Apprentice - 4th 6 months	31.57	3.00	3.46	3.50	4.53	8.95	2.00	3.75	60.75	86.60	112.45
Bricklayers - Apprentice - 5th 6 months	34.13	3.00	3.71	3.50	4.83	8.95	2.00	3.75	63.87	91.28	118.70
Bricklayers - Apprentice - 6th 6 months	36.26	3.00	3.93	3.50	5.09	8.95	2.00	3.75	66.48	95.19	123.90
Bricklayers - Apprentice - 7th 6 months	38.39	3.00	4.14	3.50	5.35	8.95	2.00	3.75	69.08	99.09	129.10
Bricklayers - Apprentice - 8th 6 months	40.53	3.00	4.35	3.50	5.60	8.95	2.00	3.75	71.68	102.99	134.31
Carpenters - Multiplier / Fixed Value		3.00	13%	3.50	10.90%	11.75	2.00	3.75			
Carpenters - General foreperson	45.07	3.00	6.25	3.50	6.30	11.75		1.50	77.37	113.61	149.86
Carpenters - Non-working foreperson	43.19	3.00	6.00	3.50	6.07	11.75		1.50	75.02	110.08	145.14
Carpenters - Working foreperson	41.32	3.00	5.76	3.50	5.84	11.75	2.00	3.75	76.92	110.81	144.71
Carpenters - Journeyman carpenter welder scaffolder	37.56	3.00	5.27	3.50	5.38	11.75	2.00	3.75	72.21	103.75	135.28
Carpenters - Helper	22.54	3.00	3.32	3.50	3.53	11.75	2.00	3.75	53.39	75.51	97.64
Carpenters - Apprentice - 1	24.41	3.00	3.56	3.50	3.76	11.75	2.00	3.75	55.73	79.03	102.32
Carpenters - Apprentice - 2	26.29	3.00	3.81	3.50	3.99	11.75	2.00	3.75	58.08	82.56	107.03
Carpenters - Apprentice - 3	30.05	3.00	4.30	3.50	4.45	11.75	2.00	3.75	62.80	89.63	116.46
Carpenters - Apprentice - 4	33.80	3.00	4.78	3.50	4.91	11.75	2.00	3.75	67.50	96.68	125.85
Electricians - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	9.75	2.00	3.75			
Electricians - General foreperson	48.93	3.00	6.75	3.50	6.78	9.75		1.50	80.21	117.87	155.53
Electricians - Non-working foreperson	46.81	3.00	6.48	3.50	6.52	9.75		1.50	77.55	113.88	150.22
Electricians - Working foreperson	44.68	3.00	6.20	3.50	6.25	9.75	2.00	3.75	79.13	114.12	149.12
Electricians - Apprentice/Journeyman electrician welder/welder	44.68	3.00	6.20	3.50	6.25	9.75	2.00	3.75	79.13	114.12	149.12
Electricians - Journeyperson	42.55	3.00	5.92	3.50	5.99	9.75	2.00	3.75	76.46	110.13	143.79
Electricians - Apprentice - 1st year	23.40	3.00	3.43	3.50	3.63	9.75	2.00	3.75	52.47	74.13	95.80

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Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Electricians - Apprentice - 2nd year	27.66	3.00	3.99	3.50	4.16	9.75	2.00	3.75	57.80	82.13	106.46
Electricians - Apprentice - 3rd year	29.79	3.00	4.26	3.50	4.42	9.75	2.00	3.75	60.47	86.14	111.81
Electricians - Apprentice - 4th year	34.04	3.00	4.82	3.50	4.94	9.75	2.00	3.75	65.80	94.13	122.46
Hotel and Restaurant - Multiplier / Fixed Value		3.00	13.0%	1.00	10.90%	16.04	2.00	3.75			
Hotel and Restaurant - Group 1 - Security	40.45	3.00	5.65	1.00	5.46	16.04	2.00	3.75	77.35	111.45	145.56
Hotel and Restaurant - Group 2 - Security	38.91	3.00	5.45	1.00	5.27	16.04	2.00	3.75	75.42	108.56	141.70
Hotel and Restaurant - Group 3 - Security	37.43	3.00	5.26	1.00	5.09	16.04	2.00	3.75	73.57	105.78	137.99
Hotel and Restaurant - Group 1	41.39	3.00	5.77	1.00	5.58	16.04	2.00	3.75	78.53	113.22	147.91
Hotel and Restaurant - Group 2	38.42	3.00	5.38	1.00	5.21	16.04	2.00	3.75	74.81	107.64	140.47
Hotel and Restaurant - Group 3	37.43	3.00	5.26	1.00	5.09	16.04	2.00	3.75	73.57	105.78	137.99
Hotel and Restaurant - Group 4	36.40	3.00	5.12	1.00	4.96	16.04	2.00	3.75	72.27	103.84	135.40
Hotel and Restaurant - Group 5	35.92	3.00	5.06	1.00	4.90	16.04	2.00	3.75	71.67	102.94	134.20
Hotel and Restaurant - Group 6	35.42	3.00	4.99	1.00	4.84	16.04	2.00	3.75	71.05	102.00	132.95
Hotel and Restaurant - Group 7	34.40	3.00	4.86	1.00	4.72	16.04	2.00	3.75	69.77	100.08	130.39
Insulators - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	10.65	2.00	3.75			
Insulators - General foreperson	44.58	3.00	6.19	3.50	6.24	10.65		1.50	75.65	111.04	146.42
Insulators - Non-working foreperson	42.08	3.00	5.86	3.50	5.93	10.65		1.50	72.52	106.34	140.15
Insulators - Working foreperson	41.33	3.00	5.76	3.50	5.84	10.65	2.00	3.75	75.83	109.18	142.52
Insulators - Journeyman mechanic	40.08	3.00	5.60	3.50	5.69	10.65	2.00	3.75	74.27	106.83	139.39
Insulators - Apprentice - 1st year	24.05	3.00	3.52	3.50	3.71	10.65	2.00	3.75	54.18	76.69	99.21
Insulators - Apprentice - 2nd year	26.05	3.00	3.78	3.50	3.96	10.65	2.00	3.75	56.69	80.46	104.23
Insulators - Apprentice - 3rd year	30.06	3.00	4.30	3.50	4.45	10.65	2.00	3.75	61.71	87.99	114.28
Insulators - Apprentice - 4th year	34.07	3.00	4.82	3.50	4.95	10.65	2.00	3.75	66.73	95.53	124.32
Ironworkers - Multiplier / Fixed Value		3.00	13.5%	3.50	10.90%	10.28	3.00	5.00			
Ironworkers - Structural General foreperson	49.39	3.00	7.07	3.50	6.86	10.28		1.50	81.61	119.97	158.32
Ironworkers - Structural foreperson	47.33	3.00	6.79	3.50	6.61	10.28		1.50	79.01	116.07	153.12
Ironworkers - Structural Connectors	42.07	3.00	6.08	3.50	5.96	10.28	3.00	5.00	78.90	112.64	146.39
Ironworkers - Structural Journeyman	41.16	3.00	5.96	3.50	5.85	10.28	3.00	5.00	77.75	110.92	144.10
Ironworkers - Structural Apprentice - 1st 1,000 hrs	28.81	3.00	4.29	3.50	4.32	10.28	3.00	5.00	62.21	87.61	113.01
Ironworkers - Structural Apprentice - 2nd 1,000 hrs	32.93	3.00	4.85	3.50	4.83	10.28	3.00	5.00	67.39	95.38	123.37
Ironworkers - Structural Apprentice - 3rd 1,000 hrs	37.04	3.00	5.41	3.50	5.34	10.28	3.00	5.00	72.56	103.14	133.72
Ironworkers - Structural Apprentice - 4th 1,000 hrs	39.10	3.00	5.68	3.50	5.59	10.28	3.00	5.00	75.16	107.04	138.91
Ironworkers - Rebar General foreperson	48.01	3.00	6.89	3.50	6.69	10.28		1.50	79.88	117.36	154.85
Ironworkers - Rebar foreperson	46.01	3.00	6.62	3.50	6.45	10.28		1.50	77.36	113.58	149.81
Ironworkers - Rebar Journeyman	40.01	3.00	5.81	3.50	5.70	10.28	3.00	5.00	76.30	108.75	141.20
Ironworkers - Rebar Apprentice - 1st 1,000 hrs	28.01	3.00	4.19	3.50	4.22	10.28	3.00	5.00	61.19	86.09	110.98
Ironworkers - Rebar Apprentice - 2nd 1,000 hrs	32.01	3.00	4.73	3.50	4.71	10.28	3.00	5.00	66.23	93.64	121.05
Ironworkers - Rebar Apprentice - 3rd 1,000 hrs	36.01	3.00	5.27	3.50	5.21	10.28	3.00	5.00	71.27	101.20	131.13
Ironworkers - Rebar Apprentice - 4th 1,000 hrs	38.01	3.00	5.54	3.50	5.46	10.28	3.00	5.00	73.78	104.97	136.16
Labourers - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	11.59	2.00	3.75			

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Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Labourers - Class 1	36.80	3.00	5.17	3.50	5.28	11.59	2.00	3.75	71.10	102.08	133.06
Labourers - Class 2	36.84	3.00	5.18	3.50	5.29	11.59	2.00	3.75	71.15	102.15	133.16
Labourers - Class 3	36.90	3.00	5.19	3.50	5.30	11.59	2.00	3.75	71.22	102.27	133.31
Labourers - Class 4	36.95	3.00	5.19	3.50	5.30	11.59	2.00	3.75	71.29	102.36	133.43
Labourers - Class 5	37.00	3.00	5.20	3.50	5.31	11.59	2.00	3.75	71.35	102.45	133.56
Labourers - Class 6	37.05	3.00	5.21	3.50	5.32	11.59	2.00	3.75	71.41	102.55	133.68
Labourers - Class 7	37.23	3.00	5.23	3.50	5.34	11.59	2.00	3.75	71.64	102.89	134.14
Labourers - Class 8	37.30	3.00	5.24	3.50	5.35	11.59	2.00	3.75	71.73	103.02	134.31
Labourers - Class 9	37.75	3.00	5.30	3.50	5.40	11.59	2.00	3.75	72.29	103.86	135.44
Labourers - Class 10	37.85	3.00	5.31	3.50	5.41	11.59	2.00	3.75	72.41	104.05	135.69
Labourers - Class 11	42.85	3.00	5.96	3.50	6.03	11.59	2.00	3.75	78.68	113.45	148.22
Labourers - Class 1 - foreperson	38.55	3.00	5.40	3.50	5.50	11.59		1.50	69.04	101.12	133.19
Labourers - Class 2 - foreperson	38.59	3.00	5.41	3.50	5.51	11.59		1.50	69.09	101.19	133.29
Labourers - Class 3 - foreperson	38.65	3.00	5.41	3.50	5.51	11.59		1.50	69.17	101.31	133.44
Labourers - Class 4 - foreperson	38.70	3.00	5.42	3.50	5.52	11.59		1.50	69.23	101.40	133.57
Labourers - Class 5 - foreperson	38.75	3.00	5.43	3.50	5.52	11.59		1.50	69.29	101.49	133.69
Labourers - Class 6 - foreperson	38.80	3.00	5.43	3.50	5.53	11.59		1.50	69.36	101.59	133.82
Labourers - Class 7 - foreperson	38.98	3.00	5.46	3.50	5.55	11.59		1.50	69.58	101.93	134.27
Labourers - Class 8 - foreperson	39.05	3.00	5.47	3.50	5.56	11.59		1.50	69.67	102.06	134.45
Labourers - Class 9 - foreperson	39.50	3.00	5.53	3.50	5.62	11.59		1.50	70.23	102.90	135.57
Labourers - Class 10 - foreperson	39.60	3.00	5.54	3.50	5.63	11.59		1.50	70.36	103.09	135.83
Labourers - Class 11 - foreperson	44.60	3.00	6.19	3.50	6.25	11.59		1.50	76.62	112.49	148.36
Labourers - Class 1 - General foreperson	39.30	3.00	5.50	3.50	5.59	11.59		1.50	69.98	102.53	135.07
Labourers - Class 2 - General foreperson	39.34	3.00	5.50	3.50	5.60	11.59		1.50	70.03	102.60	135.17
Labourers - Class 3 - General foreperson	39.40	3.00	5.51	3.50	5.60	11.59		1.50	70.11	102.72	135.32
Labourers - Class 4 - General foreperson	39.45	3.00	5.52	3.50	5.61	11.59		1.50	70.17	102.81	135.45
Labourers - Class 5 - General foreperson	39.50	3.00	5.53	3.50	5.62	11.59		1.50	70.23	102.90	135.57
Labourers - Class 6 - General foreperson	39.55	3.00	5.53	3.50	5.62	11.59		1.50	70.29	103.00	135.70
Labourers - Class 7 - General foreperson	39.73	3.00	5.55	3.50	5.65	11.59		1.50	70.52	103.34	136.15
Labourers - Class 8 - General foreperson	39.80	3.00	5.56	3.50	5.65	11.59		1.50	70.61	103.47	136.33
Labourers - Class 9 - General foreperson	40.25	3.00	5.62	3.50	5.71	11.59		1.50	71.17	104.31	137.45
Labourers - Class 10 - General foreperson	40.35	3.00	5.64	3.50	5.72	11.59		1.50	71.30	104.50	137.70
Labourers - Class 11 - General foreperson	45.35	3.00	6.29	3.50	6.34	11.59		1.50	77.56	113.90	150.24
Linespersons - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	8.15	2.00	3.75			
Linespersons - General foreperson	42.14	3.00	5.87	3.50	5.94	8.15		1.50	70.11	102.71	135.32
Linespersons - foreperson	40.14	3.00	5.61	3.50	5.70	8.15		1.50	67.60	98.96	130.31
Linespersons - Lead linesman	39.62	3.00	5.54	3.50	5.63	8.15	2.00	3.75	71.20	102.23	133.26
Linespersons - Utility worker	32.79	3.00	4.65	3.50	4.79	8.15	2.00	3.75	62.64	89.39	116.14
Linespersons - Mechanic	36.15	3.00	5.09	3.50	5.21	8.15	2.00	3.75	66.85	95.70	124.56
Linespersons - Operator + Driller/blaster	35.48	3.00	5.00	3.50	5.12	8.15	2.00	3.75	66.01	94.45	122.88
Linespersons - Full-time storekeeper	34.74	3.00	4.91	3.50	5.03	8.15	2.00	3.75	65.08	93.05	121.03
Linespersons - Instrument Person	33.38	3.00	4.73	3.50	4.86	8.15	2.00	3.75	63.38	90.50	117.62
Linespersons - Journeyman linesman or splicer	38.94	3.00	5.45	3.50	5.55	8.15	2.00	3.75	70.35	100.95	131.55

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - NIGHTSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference Formula	(B)	(C) fixed	(D) =sum(B?:C?)*C$?	(E) fixed	(F) =sum(B?:E?)*F$?	(G) fixed	(H) fixed	(I) fixed	(J) =sum(B?:I?)	(K) =((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))	(L) =((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM
Linespersons - Apprentice - 1st year	21.42	3.00	3.17	3.50	3.39	8.15	2.00	3.75	48.38	68.01	87.63
Linespersons - Apprentice - 2nd year	25.31	3.00	3.68	3.50	3.87	8.15	2.00	3.75	53.26	75.33	97.39
Linespersons - Apprentice - 3rd year	27.26	3.00	3.93	3.50	4.11	8.15	2.00	3.75	55.70	78.99	102.27
Linespersons - Apprentice - 4th year	31.16	3.00	4.44	3.50	4.59	8.15	2.00	3.75	60.59	86.31	112.03
Millwrights - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%		2.50	5.00			
Millwrights - General foreperson	47.95	3.00	6.62	3.50	6.66	12.56		1.50	81.79	120.24	158.68
Millwrights - Non-working foreperson	45.95	3.00	6.36	3.50	6.41	12.18		1.50	78.90	115.91	152.92
Millwrights - Working foreperson	43.96	3.00	6.10	3.50	6.17	11.80	2.50	5.00	82.03	117.61	153.18
Millwrights - Journeymen millwright, welder, machinist	39.96	3.00	5.59	3.50	5.67	11.05	2.50	5.00	76.27	108.96	141.65
Millwrights - Apprentice 0-1000 hrs	23.98	3.00	3.51	3.50	3.71	8.03	2.50	5.00	53.22	74.38	95.55
Millwrights - Apprentice 1001-2000 hrs	25.97	3.00	3.77	3.50	3.95	8.41	2.50	5.00	56.09	78.69	101.29
Millwrights - Apprentice 2001-3000 hrs	27.97	3.00	4.03	3.50	4.20	8.78	2.50	5.00	58.98	83.02	107.06
Millwrights - Apprentice 3001-4000 hrs	29.97	3.00	4.29	3.50	4.44	9.16	2.50	5.00	61.86	87.35	112.84
Millwrights - Apprentice 4001-5000 hrs	31.97	3.00	4.55	3.50	4.69	9.54	2.50	5.00	64.75	91.67	118.60
Millwrights - Apprentice 5001-6000 hrs	33.97	3.00	4.81	3.50	4.94	9.91	2.50	5.00	67.63	96.00	124.36
Millwrights - Apprentice 6001-7000 hrs	35.96	3.00	5.06	3.50	5.18	10.29	2.50	5.00	70.50	100.30	130.11
Millwrights - Apprentice 7001-8000 hrs	37.96	3.00	5.32	3.50	5.43	10.67	2.50	5.00	73.38	104.63	135.87
Operating Engineers - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	12.65	2.00	3.75			
Operating Engineers - Group 1 - JP	39.28	3.00	5.50	3.50	5.59	12.65	2.00	3.75	75.27	108.33	141.39
Operating Engineers - Group 1 - General foreperson	47.14	3.00	6.52	3.50	6.56	12.65		1.50	80.86	118.85	156.83
Operating Engineers - Group 1 - Non-Working foreperson	45.17	3.00	6.26	3.50	6.32	12.65		1.50	78.40	115.16	151.91
Operating Engineers - Group 1 - Working foreperson	45.17	3.00	6.26	3.50	6.32	12.65	2.00	3.75	82.65	119.41	156.16
Operating Engineers - Group 2 - JP	38.28	3.00	5.37	3.50	5.47	12.65	2.00	3.75	74.01	106.45	138.89
Operating Engineers - Group 2 - General foreperson	45.94	3.00	6.36	3.50	6.41	12.65		1.50	79.36	116.59	153.83
Operating Engineers - Group 2 - Non-Working foreperson	44.02	3.00	6.11	3.50	6.17	12.65		1.50	76.96	112.99	149.03
Operating Engineers - Group 2 - Working foreperson	44.02	3.00	6.11	3.50	6.17	12.65	2.00	3.75	81.21	117.24	153.28
Operating Engineers - Group 3 - JP	37.88	3.00	5.31	3.50	5.42	12.65	2.00	3.75	73.51	105.70	137.88
Operating Engineers - Group 3 - General foreperson	45.46	3.00	6.30	3.50	6.35	12.65		1.50	78.76	115.69	152.62
Operating Engineers - Group 3 - Non-Working foreperson	43.56	3.00	6.05	3.50	6.12	12.65		1.50	76.38	112.13	147.88
Operating Engineers - Group 3 - Working foreperson	43.56	3.00	6.05	3.50	6.12	12.65	2.00	3.75	80.63	116.38	152.13
Operating Engineers - Group 4 - JP	36.89	3.00	5.19	3.50	5.30	12.65	2.00	3.75	72.27	103.84	135.40
Operating Engineers - Group 4 - General foreperson	44.27	3.00	6.14	3.50	6.20	12.65		1.50	77.27	113.46	149.64
Operating Engineers - Group 4 - Non-Working foreperson	42.42	3.00	5.91	3.50	5.98	12.65		1.50	74.96	109.99	145.02
Operating Engineers - Group 4 - Working foreperson	42.42	3.00	5.91	3.50	5.98	12.65	2.00	3.75	79.21	114.24	149.27
Operating Engineers - Group 5 - JP	36.15	3.00	5.09	3.50	5.20	12.65	2.00	3.75	71.34	102.45	133.55
Operating Engineers - Group 5 - General foreperson	43.38	3.00	6.03	3.50	6.10	12.65		1.50	76.15	111.79	147.42
Operating Engineers - Group 5 - Non-Working foreperson	41.57	3.00	5.79	3.50	5.87	12.65		1.50	73.89	108.39	142.89
Operating Engineers - Group 5 - Working foreperson	41.57	3.00	5.79	3.50	5.87	12.65	2.00	3.75	78.14	112.64	147.14
Operating Engineers - 1st period	22.97	3.00	3.38	3.50	3.58	12.65	2.00	3.75	54.83	77.68	100.53
Operating Engineers - 2nd period	24.88	3.00	3.62	3.50	3.82	12.65	2.00	3.75	57.22	81.26	105.30
Operating Engineers - 3rd period	26.80	3.00	3.87	3.50	4.05	12.65	2.00	3.75	59.63	84.88	110.12
Operating Engineers - 4th period	28.71	3.00	4.12	3.50	4.29	12.65	2.00	3.75	62.02	88.46	114.90

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - NIGHTSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
Formula		fixed	=sum(B?:C?)*C$?	fixed	=sum(B?:E?)*F$?	fixed	fixed	fixed	=sum(B?:I?)	=((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))	=((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Operating Engineers - 5th period	30.62	3.00	4.37	3.50	4.52	12.65	2.00	3.75	64.41	92.05	119.69
Operating Engineers - 6th period	34.45	3.00	4.87	3.50	5.00	12.65	2.00	3.75	69.21	99.25	129.29
Operating Engineers - Clerical Group 1	30.93	3.00	4.41	3.50	4.56	12.65	2.00	3.75	64.80	92.64	120.47
Operating Engineers - Clerical Group 2	33.15	3.00	4.70	3.50	4.84	12.65	2.00	3.75	67.59	96.81	126.03
Operating Engineers - Clerical Group 3	34.49	3.00	4.87	3.50	5.00	12.65	2.00	3.75	69.27	99.33	129.39
Painters - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	10.25	2.00	4.00			
Painters - General foreperson - Group 1	40.75	3.00	5.69	3.50	5.77	10.25		1.50	70.46	103.24	136.03
Painters - Non-working foreperson - Group 1	40.25	3.00	5.62	3.50	5.71	10.25		1.50	69.83	102.30	134.77
Painters - Chargehands and working foremen - Group 1	39.75	3.00	5.56	3.50	5.65	10.25	2.00	4.00	73.71	105.86	138.02
Painters - Group 1	38.25	3.00	5.36	3.50	5.46	10.25	2.00	4.00	71.83	103.04	134.26
Painters - General foreperson - Group 2	43.75	3.00	6.08	3.50	6.14	10.25		1.50	74.22	108.88	143.55
Painters - Non-working foreperson - Group 2	43.25	3.00	6.01	3.50	6.08	10.25		1.50	73.59	107.94	142.29
Painters - Chargehands and working foremen - Group 2	42.75	3.00	5.95	3.50	6.02	10.25	2.00	4.00	77.47	111.50	145.54
Painters - Group 2	41.25	3.00	5.75	3.50	5.83	10.25	2.00	4.00	75.59	108.68	141.78
Painters - Apprentice - 1st year	22.95	3.00	3.37	3.50	3.58	10.25	2.00	4.00	52.65	74.28	95.91
Painters - Apprentice - 2nd year	28.69	3.00	4.12	3.50	4.29	10.25	2.00	4.00	59.85	85.07	110.30
Painters - Apprentice - 3rd year	34.43	3.00	4.87	3.50	4.99	10.25	2.00	4.00	67.04	95.86	124.69
Plumbers and pipefitters - Multiplier / Fixed Value		3.00	10.0%	3.50	10.90%	13.08	3.00	5.00			
Plumbers and pipefitters - General foreperson	50.68	3.00	5.37	3.50	6.82	13.08		1.50	83.95	123.52	163.09
Plumbers and pipefitters - foreperson	48.56	3.00	5.16	3.50	6.57	13.08		1.50	81.36	119.65	157.93
Plumbers and pipefitters - Journeyman	42.23	3.00	4.52	3.50	5.81	13.08	3.00	5.00	80.14	114.55	148.97
Plumbers and pipefitters - Apprentice - 2nd year	27.45	3.00	3.04	3.50	4.03	13.08	3.00	5.00	62.11	87.51	112.91
Plumbers and pipefitters - Apprentice - 3rd year	31.67	3.00	3.47	3.50	4.54	13.08	3.00	5.00	67.26	95.24	123.22
Plumbers and pipefitters - Apprentice - 4th year	35.90	3.00	3.89	3.50	5.05	13.08	3.00	5.00	72.42	102.97	133.53
Sheet metal - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	9.26	2.00	3.75			
Sheet metal - General foreperson	46.72	3.00	6.46	3.50	6.51	9.26		1.50	76.95	112.98	149.00
Sheet metal - Non-working foreperson	45.72	3.00	6.33	3.50	6.38	9.26		1.50	75.69	111.10	146.50
Sheet metal - Working foreperson	44.72	3.00	6.20	3.50	6.26	9.26	2.00	3.75	78.69	113.47	148.24
Sheet metal - Journeyman	42.72	3.00	5.94	3.50	6.01	9.26	2.00	3.75	76.18	109.71	143.23
Sheet metal - Welder	43.72	3.00	6.07	3.50	6.14	9.26	2.00	3.75	77.44	111.59	145.74
Sheet metal - Apprentice - 2nd year	25.63	3.00	3.72	3.50	3.91	9.26	2.00	3.75	54.77	77.59	100.40
Sheet metal - Apprentice - 3rd year	32.04	3.00	4.55	3.50	4.70	9.26	2.00	3.75	62.80	89.63	116.46
Sheet metal - Apprentice - 4th year	36.31	3.00	5.11	3.50	5.22	9.26	2.00	3.75	68.15	97.66	127.17
Teamsters - Multiplier / Fixed Value		3.00	13.0%	3.50	10.90%	10.55	2.00	3.75			
Teamsters - Group 1 teamster	37.85	3.00	5.31	3.50	5.41	10.55	2.00	3.75	71.37	102.48	133.60
Teamsters - Working foreperson Group 1	39.35	3.00	5.50	3.50	5.60	10.55	2.00	3.75	73.25	105.30	137.36
Teamsters - Non-working foreperson Group 1	39.35	3.00	5.50	3.50	5.60	10.55		1.50	69.00	101.05	133.11
Teamsters - General foreperson Group 1	39.85	3.00	5.57	3.50	5.66	10.55		1.50	69.63	101.99	134.36
Teamsters - Group 2 teamster	37.63	3.00	5.28	3.50	5.39	10.55	2.00	3.75	71.10	102.08	133.06
Teamsters - Working foreperson Group 2	39.13	3.00	5.48	3.50	5.57	10.55	2.00	3.75	72.98	104.90	136.82

PERSONNEL RATE SCHEDULE
PLA LABOUR

Rates Effective from 01 May 2017 – 30 April 2018 - NIGHTSHIFT

Trade or Classification	Base Rate	Shift Premium per Hour	Vacation & Holiday Pay	LCP Premium	Govt. Payroll Burdens	Union Benefits and Funds	Small Tools	Consumables and PPE	Straight Time Rate per Hour	Overtime Rate (1.5x) per Hour	Overtime Rate (2.0x) per Hour
Reference Formula	(B)	(C) fixed	(D) =sum(B?:C?)*C$?	(E) fixed	(F) =sum(B?:E?)*F$?	(G) fixed	(H) fixed	(I) fixed	(J) =sum(B?:I?)	(K) =((SUM($B?:$G?)-($C?*(1+$D$?)))*1.5)+($C?*(1+D?))+SUM($H?:$I?)	(L) =((SUM($B?:$G?)-($C?*(1+$D$?)))*2)+($C?*(1+D?))+SUM($H?:$I?)
Teamsters - Non-working foreperson Group 2	39.13	3.00	5.48	3.50	5.57	10.55		1.50	68.73	100.65	132.57
Teamsters - General foreperson Group 2	39.63	3.00	5.54	3.50	5.63	10.55		1.50	69.36	101.59	133.82
Teamsters - Group 3 teamster	37.42	3.00	5.25	3.50	5.36	10.55	2.00	3.75	70.84	101.68	132.53
Teamsters - Working foreperson Group 3	38.92	3.00	5.45	3.50	5.55	10.55	2.00	3.75	72.72	104.50	136.29
Teamsters - Non-working foreperson Group 3	38.92	3.00	5.45	3.50	5.55	10.55		1.50	68.47	100.25	132.04
Teamsters - General foreperson Group 3	39.42	3.00	5.51	3.50	5.61	10.55		1.50	69.09	101.19	133.29
Teamsters - Group 4 teamster	37.85	3.00	5.31	3.50	5.41	10.55	2.00	3.75	71.37	102.48	133.60
Teamsters - Working foreperson Group 4	39.35	3.00	5.50	3.50	5.60	10.55	2.00	3.75	73.25	105.30	137.36
Teamsters - Non-working foreperson Group 4	39.35	3.00	5.50	3.50	5.60	10.55		1.50	69.00	101.05	133.11
Teamsters - General foreperson Group 4	39.85	3.00	5.57	3.50	5.66	10.55		1.50	69.63	101.99	134.36
Teamsters - Group 5 teamster	43.25	3.00	6.01	3.50	6.08	10.55	2.00	3.75	78.14	112.64	147.14
Teamsters - Working foreperson Group 5	44.75	3.00	6.21	3.50	6.26	10.55	2.00	3.75	80.02	115.46	150.90
Teamsters - Non-working foreperson Group 5	44.75	3.00	6.21	3.50	6.26	10.55		1.50	75.77	111.21	146.65
Teamsters - General foreperson Group 5	45.25	3.00	6.27	3.50	6.33	10.55		1.50	76.40	112.15	147.91
Teamsters - Group 6 teamster	48.96	3.00	6.75	3.50	6.78	10.55	2.00	3.75	85.30	123.38	161.45
Teamsters - Working foreperson Group 6	50.46	3.00	6.95	3.50	6.97	10.55	2.00	3.75	87.18	126.20	165.21
Teamsters - Non-working foreperson Group 6	50.46	3.00	6.95	3.50	6.97	10.55		1.50	82.93	121.95	160.96
Teamsters - General foreperson Group 6	50.96	3.00	7.01	3.50	7.03	10.55		1.50	83.55	122.89	162.22
Teamsters - Group 4 Apprentice 1	26.49	3.00	3.83	3.50	4.01	10.55	2.00	3.75	57.14	81.14	105.14
Teamsters - Group 4 Apprentice 2	30.28	3.00	4.33	3.50	4.48	10.55	2.00	3.75	61.88	88.26	114.63
Teamsters - Group 4 Apprentice 3	34.06	3.00	4.82	3.50	4.95	10.55	2.00	3.75	66.63	95.37	124.11
Elevator Constructors - Multiplier / Fixed Value		3.00	12.0%	3.50	10.90%	4.09	2.00	3.75			
Elevator Constructors - Mechanic	45.55	3.00	5.83	3.50	6.31	4.09	2.00	3.75	74.03	106.48	138.94
Elevator Constructors - Mechanic in charge I	51.24	3.00	6.51	3.50	7.00	4.09	2.00	3.75	81.09	117.08	153.08
Elevator Constructors - Mechanic in charge II	52.38	3.00	6.65	3.50	7.14	4.09	2.00	3.75	82.51	119.21	155.91
Elevator Constructors - Probationary Helper I	22.78	3.00	3.09	3.50	3.53	4.09	2.00	3.75	45.74	64.06	82.38
Elevator Constructors - Probationary Helper II	25.05	3.00	3.37	3.50	3.81	4.09	2.00	3.75	48.56	68.28	88.01
Elevator Constructors - Helper I	31.89	3.00	4.19	3.50	4.64	4.09	2.00	3.75	57.06	81.03	105.01
Elevator Constructors - Helper II	34.16	3.00	4.46	3.50	4.92	4.09	2.00	3.75	59.87	85.25	110.64
Elevator Constructors - Improver helper	36.44	3.00	4.73	3.50	5.20	4.09	2.00	3.75	62.71	89.51	116.31

PERSONNEL RATE SCHEDULE
PLA LABOUR

The following conditions apply to the Personnel Rate Schedules - PLA Labour in this Appendix D.

Column B: Base rate as per the Project Labour Agreement.

Column C: The shift premium of $3.00 per hour and is applied to the second and third shifts. Vacation and holiday pay are added to the shift premium. The shift premium is not included in the calculation of overtime.

Column D: Vacation pay includes vacation and recognized holiday pay as per the Project Labour Agreement.

Column E: Lower Churchill Project (LCP) Premium as per the Project Labour Agreement.

Column F: Government Payroll burdens includes employment insurance (EI), Workplace Health Safety and Compensation Commission (WHSCC), and Canada Pension Plan (CPP) premiums, and the health and post-secondary education tax (HAPSET), and any other government payroll burdens, as applicable. Company reserves the right to verify for any over recovery on EI, CPP and WHSCC premiums, since these are subject to a maximum for the year. Refer to General Note 4. There is no maximum limit for the HAPSET tax.

Column G: Union Benefits and Funds as per the Project Labour Agreement.

Column H: Small Tools includes all tools with a replacement value of less than two thousand ($2,000.00) Canadian Dollars each. Refer to Exhibit 2 - Appendix C for a typical listing of these types of small tools. Such items shall be furnished by the Contractor complete with all accessories and expendable operating parts and shall be maintained in good condition including the replacement of parts as may be necessary.

Column I: Consumables whether recoverable or non-recoverable and Personal Protective Equipment (refer Exhibit 2 - Appendix C).

Column J: The Straight Time Rate includes the total of columns B to I inclusive.

Column K: Overtime Rate at 1.5 x is the all-in rate for labour costs when the overtime premium at 1.5 x is applicable in accordance with the Project Labour Agreement. Overtime Rate = 1.5 x (the sum of the costs in Columns B, D, E, F and G), plus the sum of the costs in columns C, H an I.

Column L: Overtime Rate at 2.0 x is the all-in rate for labour costs when the overtime premium at 2.0 x is applicable in accordance with the Project labour Agreement. Overtime Rate = 2.0 x (the sum of the costs in Columns B, D, E, F and G), plus the sum of the costs in columns C, H and I.

General:

PERSONNEL RATE SCHEDULE
PLA LABOUR

The following conditions apply to the Personnel Rate Schedules - PLA Labour in this Appendix D.

1) Currency of the rates is Canadian Dollars

2) Shift Premium is the incremental charge applied to the Straight Time Rate and Overtime Rate for shift Personnel.

3) The payroll burden rates expressed in dollars in this Schedule may be revised annually as necessary to reflect changes in statutory allowances.

4) Column (F) - Govt. Payroll Burdens is intended as an estimate of Employment Insurance (EI), Workplace Health Safety and Compensation Commission (WHSCC), Canada Pension Plan (CPP) and health and post-secondary education tax (HAPSET) only. **It is the intention of this Agreement that Company will pay Contractor's actual cost plus Labour Overhead and Profit for these components of the labour rates.** The payroll burden rates contained in column (F) - Govt. Payroll Burdens may be revised annually as necessary to reflect changes in statutory rates. Within ninety (90) days after the end of each calendar year, and also as part of the Billing Information for the Payment Certificate issued prior to Final Completion, Contractor shall perform a reconciliation of the difference between (a) the total payroll burden costs paid by Company (more specifically, the CPP, EI, HAPSET and WHSCC covered in the rates above), and (b) the actual payroll burden amounts paid by Contractor to Authorities; all as it pertains to this Agreement. Contractor shall provide Company with a report of the results along with any documentation Company may require to verify the amounts contained in the report. The form and content of such report shall be subject to the Approval of Company. In addition, Company reserves the right to verify the established dollar values and revisions thereto. In the event the Contractor has over recovered on its payroll burden costs, the Contractor shall refund to Company the difference between the actual and costs assumed in the rates for Govt. Payroll Burdens.

5) Whenever the Rates are to be used in conjunction with Article **34.1** and Section 9 – Standby – of Exhibit 2, the Straight Time Rate as calculated above, but reduced by the sum of columns (H) + (I), shall apply.

6) Whenever the Rates are to be used in conjunction with Article **31.7** and Section 9 – Standby – of Exhibit 2, the Straight Time Rate as calculated above, but reduced by the sum of columns (H) + (I), shall apply and no Labour Overhead and Profit shall be applied to the Rates.

7) Rate tables do not include the 'Tool Premium' due to some Operating Engineers under the Project Labour Agreement. Contractor will apply this rate as applicable under the Project Labour Agreement.

PERSONNEL RATE SCHEDULE
NON PLA LABOUR

Rates apply to each category of worker which will Work on the Site but are not be covered under the Project Labour Agreement.

Category	Total Rate per hour
Project Manager	$ 178.00
Project Controls Lead	$ 135.00
Planner	$ 130.00
Scheduler	$ 105.00
Contract Administrator	$ 105.00
Cost Control	$ 95.00
Quantity Surveyor	$ 95.00
QA / QC Lead	$ 140.00
QC Inspector	$ 105.00
Document Control	$ 70.00
HSE Lead	$ 120.00
HSE Advisor	$ 105.00
Construction Manager	$ 150.00
Superintendent	$ 135.00
Project Engineer	$ 120.00
Field Engineer	$ 105.00
Purchaser	$ 83.00
Material Control	$ 90.00
Admin Assistant	$ 54.00
Clerk / Travel Coordinator	$ 54.00
Commissioning / Turnover Manager	$ 140.00
Field Engineer - Survey	$ 120.00
Commissioning Quality Engineer	$ 130.00
Commissioning Supervisor	$ 130.00
Testing Technician / Engineer	$ 130.00

- Rates in this table apply to Changes only.
- Rates include all amounts associated with the provision of Personnel, in the above categories, performing Work on Site, including overhead, burdens and profit.
- Staff rates to be adjusted annually starting in January 2018 to reflect any increase in the previous year's Consumer Price Index (All Items for Newfoundland and Labrador).
- No overtime premium rate shall apply in any circumstance.

APPENDIX E

EQUIPMENT RATE SCHEDULE

EQUIPMENT RATE SCHEDULE

						First Shift				Second Shift			
	Equipment Type	Manufacturer and Model Number	Size	Year	Quantity Available	Hour	Day	Week	Month	Hour	Day	Week	Month
1	Bucket Truck					150.00	1,200.00	4,800.00	14,400.00	150.00	1,200.00	4,800.00	14,400.00
2	Excavator					130.00	1,040.00	4,160.00	12,480.00	130.00	1,040.00	4,160.00	12,480.00
3	Go Track					130.00	1,040.00	4,160.00	12,480.00	130.00	1,040.00	4,160.00	12,480.00
4	Pole Trailer					125.00	1,000.00	4,000.00	12,000.00	125.00	1,000.00	4,000.00	12,000.00
5	Tension Stringer					150.00	1,200.00	4,800.00	14,400.00	150.00	1,200.00	4,800.00	14,400.00
6	Tension Puller					175.00	1,400.00	5,600.00	16,800.00	175.00	1,400.00	5,600.00	16,800.00
7	Tractor Trailer					190.00	1,520.00	6,080.00	18,240.00	190.00	1,520.00	6,080.00	18,240.00
8	Skid Steer Loader					43.75	350.00	1,770.00	5,300.00	43.75	350.00	1,770.00	5,300.00
9	Snow Blower					8.75	70.00	330.00	1,000.00	8.75	70.00	330.00	1,000.00
10	Office Complex					N/A	N/A	N/A	36,000.00	N/A	N/A	N/A	N/A
11	Lavatory Skid Self Contained					41.18	329.43	1,317.71	3,993.06	N/A	N/A	N/A	N/A
12	Lunch / Office trailers 12 x 60 complete with furniture					46.41	371.25	1,485.00	4,500.00	N/A	N/A	N/A	N/A
13	Container, 20'					4.16	33.26	133.03	403.13	N/A	N/A	N/A	N/A
14	Container, 40'					5.99	47.89	191.57	580.50	N/A	N/A	N/A	N/A
15	3/4 T Pick-Up					36.09	288.75	1,155.00	3,500.00	36.09	288.75	1,155.00	3,500.00

Appen
Equipment Rate Schedule
Agreement Number: CH0031-001

	Equipment Type	Manufacturer and	Size	Year	Quantity Available	First Shift Hour	First Shift Day	First Shift Week	First Shift Month	Second Shift Hour	Second Shift Day	Second Shift Week	Second Shift Month
16	1/2 T Pick-Up					33.00	264.00	1,056.00	3,200.00	33.00	264.00	1,056.00	3,200.00
17	15 Passenger Van					36.09	288.75	1,155.00	3,500.00	36.09	288.75	1,155.00	3,500.00
18	Boom Truck 25 - 28T					185.63	1,485.00	5,940.00	18,000.00	185.63	1,485.00	5,940.00	18,000.00
19	Carry Deck Crane 15T - 18T					176.25	1,410.00	5,650.00	17,000.00	176.25	1,410.00	5,650.00	17,000.00
20	Highway Tractor					185.63	1,485.00	5,940.00	18,000.00	185.63	1,485.00	5,940.00	18,000.00
21	Bus (40 Passenger)					N/A	N/A	N/A	4,500.00	N/A	N/A	N/A	4,500.00
22	Scissor 19FT Elect Mini					9.34	74.75	298.98	906.00	9.34	74.75	298.98	906.00
23	Scissor 24-26FT Elect					11.22	89.76	359.04	1,088.00	11.22	89.76	359.04	1,088.00
24	Scissor 30-35FT IC 4WD					21.23	169.87	679.47	2,059.00	21.23	169.87	679.47	2,059.00
25	Scissor 36-49FT IC 4WD					25.97	207.74	830.94	2,518.00	25.97	207.74	830.94	2,518.00
26	Boom 30-33FT Elect Narrow					23.72	189.75	759.00	2,300.00	23.72	189.75	759.00	2,300.00
27	Boom 40-45ft Elect					28.96	231.66	926.64	2,808.00	28.96	231.66	926.64	2,808.00
28	Boom 45ft IC Artic 4WD					33.05	264.41	1,057.65	3,205.00	33.05	264.41	1,057.65	3,205.00
29	Boom 60ft IC Artic 4WD					38.60	308.80	1,235.19	3,743.00	38.60	308.80	1,235.19	3,743.00
30	Boom 65ft IC Stick 4WD					38.60	308.80	1,235.19	3,743.00	38.60	308.80	1,235.19	3,743.00
31	Boom 80ft IC Artic 4WD					81.43	651.42	2,605.68	7,896.00	81.43	651.42	2,605.68	7,896.00
32	Boom 86ft IC Stick 4WD					84.10	672.79	2,691.15	8,155.00	84.10	672.79	2,691.15	8,155.00
33	Welder 400AMP Diesel					16.25	130.00	510.00	1,525.00	16.25	130.00	510.00	1,525.00

Appen
Equipment Rate Schedule
Agreement Number: CH0031-001

	Equipment Type	Manufacturer and	Size	Year	Quantity Available	First Shift				Second Shift			
						Hour	Day	Week	Month	Hour	Day	Week	Month
34	Compressor 185CFM Diesel					10.16	81.26	325.05	985.00	10.16	81.26	325.05	985.00
35	Light Tower Small Diesel					16.56	132.50	530.00	1,590.00	16.56	132.50	530.00	1,590.00
36	Generator 125-149 KVA					31.06	248.49	993.96	3,012.00	31.06	248.49	993.96	3,012.00
37	Generator 70-79 KVA					26.30	210.38	841.50	2,550.00	26.30	210.38	841.50	2,550.00
38	Generator 19-29 KVA					19.35	154.77	619.08	1,876.00	19.35	154.77	619.08	1,876.00
39	Forklift 5000lb Wharehouse					19.66	157.25	628.98	1,906.00	19.66	157.25	628.98	1,906.00
40	Forklift 6000lb Wharehouse					19.66	157.25	628.98	1,906.00	19.66	157.25	628.98	1,906.00
41	Forklift 8000lb Wharehouse					21.34	170.69	682.77	2,069.00	21.34	170.69	682.77	2,069.00
42	Forklift 10000lb Wharehouse					25.45	203.61	814.44	2,468.00	25.45	203.61	814.44	2,468.00
43	Forklift 15000lb Wharehouse					43.48	347.82	1,391.28	4,216.00	43.48	347.82	1,391.28	4,216.00
44	Forklift Variable Reach 12000lb					52.66	421.25	1,684.98	5,106.00	52.66	421.25	1,684.98	5,106.00
45	Forklift Variable Reach 10000lb					43.78	350.21	1,400.85	4,245.00	43.78	350.21	1,400.85	4,245.00
46	Forklift Variable Reach 8000lb					37.19	297.50	1,189.98	3,606.00	37.19	297.50	1,189.98	3,606.00
47	Burndy Y35 Crimping Tool					8.77	70.13	280.50	850.00	8.77	70.13	280.50	850.00
48	Cable Puller/Pusher					8.04	64.35	257.40	780.00	8.04	64.35	257.40	780.00
49	Cable Reel Roller, 15t					24.23	193.88	775.50	2,350.00	24.23	193.88	775.50	2,350.00
50	Electric Welding Machine					8.66	69.30	277.20	840.00	8.66	69.30	277.20	840.00
51	Greenlee Pulley/Roller System,					9.28	74.25	297.00	900.00	9.28	74.25	297.00	900.00

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Equipment Rate Schedule
Agreement Number: CH0031-001

	Equipment Type	Manufacturer and	Size	Year	Quantity Available	First Shift Hour	First Shift Day	First Shift Week	First Shift Month	Second Shift Hour	Second Shift Day	Second Shift Week	Second Shift Month
	Asst'd												
52	Plate Tamper DSL 1000LB					21.88	175.07	700.26	2,122.00	21.88	175.07	700.26	2,122.00
53	Greenlee Tugger - 6,500 lb.					7.22	57.75	231.00	700.00	7.22	57.75	231.00	700.00
54	Greenlee Tugger - 8,000 lb.					8.04	64.35	257.40	780.00	8.04	64.35	257.40	780.00
55	Hydraulic K.O. Cutters - 1/2" to 2"					3.61	28.88	115.50	350.00	3.61	28.88	115.50	350.00
56	Hydraulic K.O. Cutters - 1/2" to 4"					3.85	30.77	123.09	373.00	3.85	30.77	123.09	373.00
57	Magnetic Drill Press, 3/4",Milwak. 1/2" Chuck					5.16	41.25	165.00	500.00	5.16	41.25	165.00	500.00
58	Portable Pipe Threader - 1/2" to 2"					3.35	26.81	107.25	325.00	3.35	26.81	107.25	325.00
59	Rigid Pipe Bender - 3/4" to 4"					12.89	103.13	412.50	1,250.00	12.89	103.13	412.50	1,250.00
60	Rigid Pipe Threading Machine - 1/2" to 4"					7.73	61.88	247.50	750.00	7.73	61.88	247.50	750.00
61	Victaulic Groover Large					6.51	52.08	208.33	625.00	6.51	52.08	208.33	625.00
62	Victaulic Groover Small					4.69	37.50	150.00	450.00	4.69	37.50	150.00	450.00
63	1 KV Megger					7.43	59.40	237.60	720.00	7.43	59.40	237.60	720.00
64	5 KV Megger					8.66	69.30	277.20	840.00	8.66	69.30	277.20	840.00
65	Burndy Y35 Crimping Tool					8.25	66.00	264.00	800.00	8.25	66.00	264.00	800.00
66	Cable Fault Locator					24.23	193.88	775.50	2,350.00	24.23	193.88	775.50	2,350.00
67	Communicator					19.80	158.40	633.60	1,920.00	19.80	158.40	633.60	1,920.00
68	Digital Dielectic Test												

Appen
Equipment Rate Schedule
Agreement Number: CH0031-001

	Equipment Type	Manufacturer and	Size	Year	Quantity Available	First Shift Hour	First Shift Day	First Shift Week	First Shift Month	Second Shift Hour	Second Shift Day	Second Shift Week	Second Shift Month
	Set					11.14	89.10	356.40	1,080.00	11.14	89.10	356.40	1,080.00
69	Digital Hipot Test Set					21.04	168.30	673.20	2,040.00	21.04	168.30	673.20	2,040.00
70	Hot Sticks Rate 46KV/CW Test Meter					10.83	86.63	346.50	1,050.00	10.83	86.63	346.50	1,050.00
71	HV Injection Unit					44.86	358.88	1,435.50	4,350.00	44.86	358.88	1,435.50	4,350.00
72	MA & V Source					18.82	150.56	602.25	1,825.00	18.82	150.56	602.25	1,825.00
73	Power Quality Analyzer					12.89	103.13	412.50	1,250.00	12.89	103.13	412.50	1,250.00
74	Regulated Power Supply					7.63	61.05	244.20	740.00	7.63	61.05	244.20	740.00
75	Relay Test Set					19.49	155.93	623.70	1,890.00	19.49	155.93	623.70	1,890.00
76	Scope Meter					8.51	68.06	272.25	825.00	8.51	68.06	272.25	825.00

NOTES

1. The rates include, but are not limited to, the cost of equipment rental, fuel, lubricants, tires, expendable parts, service, maintenance, calibration, repairs, storage, insurance, licenses, depreciation, interest, taxes, overhead, mark-up and profit.

2. The rates include labour and equipment for fuelling, lubricating, servicing, maintaining, repairing, spare parts and installation.

3. The rates exclude operator's labour costs.

4. Rates are applicable only to actual operating time.

5. For any equipment not listed, rental rates will be agreed to in writing by Company prior to the deployment and use of such equipment. Equipment rented or leased from a third party shall be compensated at actual documented invoice cost plus the markup set out in Exhibit 2 – Section 6.5(c). Third party leasing shall be subject to the Approval of Company in advance of the deployment and use of such equipment. In the event of third party leased equipment requires operation and maintenance, the appropriate rate for same shall be subject to the Approval of Company in advance of the deployment and use of such equipment.

6. If Approved by Company, the time required to mobilize and demobilize equipment not located at the Site and which is to be deployed at the Site on Change Order Work will be compensated. Compensation will include loading and transportation costs where this is more efficient than travelling the equipment. The cost of demobilizing the equipment will not be compensated if such equipment is used at the Site for Work performed on a lump sum or unit price basis.

APPENDIX F

PLA LABOUR OVERHEAD AND PROFIT APPLICATION

PLA Labour Overhead and Profit Application

Target Cost of Labour Adjustment

Description	Amount
Target Cost of Labour	$63,920,703.06
Labour Cost Adjustments	
Adjusted Target Cost of Labour	**$63,920,703.06**

Reimbursable Cost of Labour	

Labour Cost Difference (Minimum=0)	**$0.00**

Percentage Range	Amount	OH&P Multipier	Labour Overhead & Profit	Manpower Cost	Total	X Target Cost Labour
Up to Reimbursable Cost of Labour	**0.00**	0.13	0.00	0.00	0.00	
0-17 above Reimbursable Cost of Labour	0.00	0.07	0.00	0.00	0.00	0.00
>17-34 above Reimbursable Cost of Labour	0.00	0.03	0.00	0.00	0.00	0.00
>34-51 above Reimbursable Cost of Labour	0.00	0.00	0.00	0.00	0.00	0.00
>51-68 above Reimbursable Cost of Labour	0.00	-0.23	0.00	0.00	0.00	0.00
>68-85 above Reimbursable Cost of Labour	0.00	-0.56	0.00	0.00	0.00	0.00
>85-102 above Reimbursable Cost of Labour	0.00	-0.07	0.00	0.00	0.00	0.00
>103 above Reimbursable Cost of Labour	0.00	-0.07	0.00	0.00	0.00	0.00
	$63,920,703.06		**0.00**			

APPENDIX G

SWORN DECLARATION

Exhibit 2
Compensation
Agreement Number: CH0031-001

SWORN DECLARATION – ACCOMPANYING INVOICE FOR PAYMENT

CANADA	) IN THE MATTER OF THE AGREEMENT
	) BETWEEN MUSKRAT FALLS CORPORATION AND
PROVINCE OF NEWFOUNDLAND	) **[CONTRACTOR]**
AND LABRADOR	) DATED AS OF **[DATE]** FOR THE
	) **[DESCRIPTION OF WORK]**
	) BEING AGREEMENT NO. **[INSERT NO.]**
	) (the "Agreement")

I, **[●]**, of the City of **[●]**, in the **[Province]/[State]** of **[●]**,**[Country]**, do solemnly declare that:

1. I am the **[title]** of **[full legal name of Contractor]** and as such have personal knowledge of the facts set out in this Declaration.

2. Defined terms used in this sworn Declaration but not defined in this Declaration have the meanings given to those terms in the Agreement.

3. All (a) payments due to Subcontractors, (b) wages and benefit payments due to any of Contractor's Personnel, and (c) Taxes, contributions, premiums, allowances and remittances due to any Authority, pension fund, benefit plan or union fund in accordance with a collective agreement or Applicable Laws, have been paid in a timely manner on or before the date of the Invoice and associated Payment Certificate to which this Declaration relates, subject to any withholdings or holdbacks required by Applicable Laws.

4. Title to the applicable part of the Work will pass to Company in accordance with Article 23 of the Agreement.

5. (a) There are no known outstanding Claims under the Agreement, including but not limited to Claims by Contractor against Company, except for those Claims which have already been communicated to Company in a timely manner in the form of Notice required by the Agreement and which are described and listed in the Appendix to this Declaration, including an estimate of the value of each such Claim;

   or

   (b) There are outstanding Claims, including but not limited to Claims by Contractor against Company, which have not been communicated to Company and each of these Claims is described and listed in the Appendix to this Declaration and is delivered to Company in a timely manner, and there are no other known outstanding Claims under the Agreement, except for those Claims which have already been communicated to Company in a timely manner in the form of Notice required by the Agreement and which are described and listed in the Appendix to this Declaration, including an estimate of the value of each such Claim.

6. The last application for payment for which we have received payment is No. _____ dated the _____ day of _____, 20__.

I make this Declaration conscientiously believing it to be true and knowing it is of the same force as if made under oath.

DECLARED before me at the City of
[•],
in the **[Province]/[State]** of
[•],
[Country]
on **[Month]**, **[Date]**, 20**[•]**

)
)
)
)
)
)
)
)

_____
Name:
A Commissioner, etc.

_____
Declarant

APPENDIX TO SWORN DECLARATION
[Date]

(a) Claims previously communicated to Company:

Description

Estimated Value

(b) Claims not previously communicated to Company:

Description:

Estimated Value:

APPENDIX H

OPERATING SPARES PRICE SCHEDULE

OPERATING SPARES PRICE SCHEDULE

TABLE OF CONTENTS

Note: Where it is not otherwise stated delivery terms for items in the following tables are Incoterms: DDP Muskrat Falls Generating Facility, Newfoundland and Labrador

OPERATING SPARES PRICE SCHEDULE

Water Treatment Plant Magnor

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Butterfly valve Bray 4" series 31	31-713/S04	Bray	31-713/S04	0.1	4	$ 483.00/EA CAD X-work Boucherville QC
Butterfly valve Bray 2 1/2" series 31	31-713/S01	Bray	31-713/S01	0.1	4	$ 201.25/EA CAD X-work Boucherville QC
Bray electric actuator series 70	S70	Bray	S70	0.1	4	$ 1391.50/EA CAD X-work Boucherville QC
Filtering media : Anthracite	1625-0001	Magnus	1625-0001	2 cu.ft	4	$ 42.49/cu ft CAD X-work Boucherville QC
Filtering media : Sand	1615-0013	Magnus	1615-0013	200 lb	4	$ 0.41/lb CAD X-work Boucherville QC
Man-hole gasket	1830-0046	Magnus	1830-0046	2	4	$ 78.87/EA CAD X-work Boucherville QC
VALVE FLOW-TEK #7205-3-RRL 1" SS, SOCKET WELD	7205-3-RRL	Bray	7205-3-RRL	0.1	4	$ 178.25/EA CAD X-work Boucherville QC
VALVE FLOW-TEK #7207-3-RRL 1 1/2" SS, SOCKET WELD	7207-3-RRL	Bray	7207-3-RRL	0.1	4	$ 293.25/EA CAD X-work Boucherville QC
VALVE FLOW-TEK #7203-3-RRL 1/2" SS, SOCKET WELD	7203-3-RRL	Bray	7203-3-RRL	0.1	4	$ 92/EA CAD X-work Boucherville QC
VALMATIC AIR VENT SERIES 200-SS #201CX075	201CX075	VALMATIC	201CX075	0.1	16-18	$ 6468.75/EA CAD X-work Boucherville QC

OPERATING SPA... RICE SCHEDULE

Water Treatment Plant Magnor

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
PRESSURE SWITCH SERIE 400	J402K- S147B-M201- M446	WAJAX	J402K-S147B-M201-M446	0.1	8	$ 4588.5/EA CAD X-work Boucherville QC
PRESSURE GAUGE WINTERS SERIE PFP645Z R2R1, 600-1000 kPag, 4PO SS304, 1/4NPT	PFP645Z R2R1	WINTERS	PFP645Z R2R1	0.1	4	$ 891.25/EA CAD X-work Boucherville QC
SWAGELOK VALVE SERIES 60 1/4" #SS-62TS4	SS-62TS4	SWAGELOK	SS-62TS4	0.1	4	$ 368/EA CAD X-work Boucherville QC
DIFF PRESS GAUGE ASHCROFT TYPE 1127 P/N 45- 1127SD-02L 0-70KPA/PSI	45-1127SD-02L 0-70KPA/PSI	ASHCROFT	45-1127SD-02L 0-70KPA/PSI	0.1	8	$ 2242.5/EA CAD X-work Boucherville QC
Filter control valve 2850NXT	1105-0107	Magnus	1105-0107	0.1	4	$ 1376.55/EA CAD X-work Boucherville QC
Exchanger control valve 2900NXT	1105-0081	Magnus	1105-0081	0.1	4	$ 2472.50/EA CAD X-work Boucherville QC
UV lamp SPV410	1485-0102	Magnus	1485-0102	3	4	$ 138.00/EA CAD X-work Boucherville QC
UV quartz sleeve	1485-0182	Magnus	1485-0182	3	4	$ 63.25/EA CAD X-work Boucherville QC
UV controler	1490-0009	Magnus	1490-0009	3	4	$ 661.25/EA CAD X-work Boucherville QC

OPERATING SPARES PRICE SCHEDULE

Water Treatment Plant Magnor

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
UV sensor	1440-0008	Magnus	1440-0008	3	4	$ 431.25/EA CAD X-work Boucherville QC
Chlorine dosing pump	1705-0019	Magnus	1705-0019	0.2	6	$ 2673.75/EA CAD X-work Boucherville QC
Chlorine back pressure valve	2040-0099	Magnus	2040-0099	0.2	4	$ 346.15/EA CAD X-work Boucherville QC
Chlorine relief valve	2040-0107	Magnus	2040-0107	0.2	4	$ 392.15/EA CAD X-work Boucherville QC
Chlorine flow switch	1715-0020	Magnus	1715-0020	0.2	4	$ 1277.65/EA CAD X-work Boucherville QC

OPERATING SPARES PRICE SCHEDULE

Water Treatment Xylem

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price (CAD)
2250 88HP Pump Basic Repair Kit	6019007	Xylem	6019007	0.5	2	$4,016.71
2251 88HP Pump Impeller	5188500	Xylem	5188500	0.5	2	$3,089.39
2250 58HP Pump Basic Repair Kit	6019006	Xylem	6019006	0.5	2	$2,849.17
2251 58HP Pump Impeller	4625200	Xylem	4625200	0.5	2	$742.01

Diesel Generator Generatrice Drummond

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Oil filters	TBO	TBO	TBO	2	TBO	$ 94.3/EA CAD
Primary fuel filters	TBO	TBO	TBO	1	TBO	$ 195.5/EA CAD
Secondary fuel filters	TBO	TBO	TBO	2	TBO	$ 35.65/EA CAD
Water separator fuel filters	TBO	TBO	TBO	2	TBO	$ 13.8/EA CAD
Fan belt (Optional)	TBO	TBO	TBO	1	TBO	$ 578.45/EA CAD
Alternator belt (Optional)	TBO	TBO	TBO	1	TBO	$ 161/EA CAD
Engine lube oil (Liter)	TBO	TBO	TBO	77	TBO	$ 6.84/EA CAD

Compressed Air Kaeser

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Set of Filter Cartridges	ANK-Filt	L.M.F.		1 Set / Year	Stock Montreal	$ 516.12/EA CAD
Set Gasket Valve Inspection	ANK- GAS	L.M.F.		1 Set / Year	3 Weeks ARO	$ 422.83/EA CAD
Various Service Kits (solenoid,						
Vent Valve, check valve)		L.M.F.		1 Set / Year	3 Weeks ARO	$ 3308.76/EA CAD
Set of Gaskets		L.M.F.		1 Set /2Years	3 Weeks ARO	$ 1603.20/EA CAD
Complete Set of Valves		L.M.F.		1 Set /2Years	3 Weeks ARO	$ 11391.60/EA CAD
Maintenance Kit	AN5YRCKC SD2	Kaeser		1 Set / Year	Stock Montreal	$ 2979.60/EA CAD
High Pressure Compressor Oil	ANP122-5	Schell Corena		4 Pails / Year	Stock Montreal	$ 291.60/EA CAD
Low Pressure Compressor Oil	M-460	Kaeser		4 Pails / Year	Stock Montreal	$ 429.60/EA CAD
Filter Separator Cartridge	USLS-485	Kaeser		1 / Year	Stock Montreal	$ 225.60/EA CAD
Oil/Water Separator Cartridge	ANKCF200 CART	Kaeser		1 / Year	Stock Montreal	$ 721.20/EA CAD

OPERATING SPARES PRICE SCHEDULE

Compressed Air Kaeser

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price

OPERATING SPARES PRICE SCHEDULE

Filtration John Brooks

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price (Incoterm) (specify currency)
Spare Screen	3442, 07	IFC	SC0100YT1500003	1 /STRAINER/YEAR	2-3 weeks	$ 27.14/EA CAD
Gasket	3442, 07	IFC	SC0100YT1500003	1 /STRAINER/YEAR	2-3 weeks	$ 14.95/EA CAD
Spare Screen	3442,08	IFC	SC0100YT1500003	1 /STRAINER/YEAR	2-3 weeks	$ 27.14/EA CAD
Gasket	3442,08	IFC	SC0100YT1500003	1 /STRAINER/YEAR	2-3 weeks	$ 14.95/EA CAD
Spare Screen	344A,02	IFC	SC0100YT600003	1 /STRAINER/YEAR	2-3 weeks	$ 27.14/EA CAD
Gasket	344A,02	IFC	SC0100YT600003	1 /STRAINER/YEAR	2-3 weeks	$ 13.80/EA CAD
Spare Screen	344A,03	IFC	SC0100YT600003	1 /STRAINER/YEAR	2-3 weeks	$ 27.14/EA CAD
Gasket	344A,03	IFC	SC0100YT600003	1 /STRAINER/YEAR	2-3 weeks	$ 13.80/EA CAD
Basket 300mesh	344B,02	Eaton	#85, 2-/2"Flang	1 /STRAINER/YEAR	2-3 weeks	$ 217.41/EA CAD
Gasket	344B,02	Eaton	gasket for #85 2-/2"Flang	1 /STRAINER/YEAR	2-3 weeks	$ 28.52/EA CAD
Basket	344B,02	IFC	YF150, 2-/2"Flang ed	1 /STRAINER/YEAR	2-3 weeks	$ 141.57/EA CAD
Gasket	344B,02	IFC	gasket for YF150	1 /STRAINER/YEAR	2-3 weeks	$ 20.59/EA CAD
Basket 300mesh	3449,02	Eaton	#85, 1-1/2" SW	1 /STRAINER/YEAR	2-3 weeks	$ 133.00/EA CAD
Gasket	3449,02	Eaton	gasket for #85 1-1/2" SW	1 /STRAINER/YEAR	2-3 weeks	$ 25.30/EA CAD
Basket	3449,02	IFC	YSW300, 1-1/2"	1 /STRAINER/YEAR	2-3 weeks	$ 44.51/EA CAD
Gasket	3449,02	IFC	gasket for YSW300	1 /STRAINER/YEAR	2-3 weeks	$ 11.50/EA CAD
Basket 300mesh	3449,03	Eaton	#85, 2-/2"Flang	1 /STRAINER/YEAR	2-3 weeks	$ 217.41/EA CAD
Gasket	3449,03	Eaton	gasket for #85 2-/2"Flang	1 /STRAINER/YEAR	2-3 weeks	$ 28.52/EA CAD
Basket	3449,03	IFC	YF150, 2-/2"Flang ed	1 /STRAINER/YEAR	2-3 weeks	$ 141.57/EA CAD
Gasket	3449,03	IFC	gasket for YF150	1 /STRAINER/YEAR	2-3 weeks	$ 20.59/EA CAD
Spare Basket	3448,01	Eaton	Model#73	1 /STRAINER/YEAR	2-3 weeks	$ 3775.84/EA CAD
Spare Basket	3448,01	IFC	BF125CI	1 /STRAINER/YEAR	2-3 weeks	$ 1128.04/EA CAD
Gasket	3448,01	IFC	gasket for BF125CI	1 /STRAINER/YEAR	2-3 weeks	$ 51.75/EA CAD
MEDIA KIT, INLET	344B,01	Lakos	106433	0.20 Each	2-3 weeks	$ 34.94/EA CAD

OPERATING SPARES PRICE SCHEDULE

Filtration John Brooks

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price (Incoterm) (specify currency)
MEDIA KIT, OUTLET	344B,01	Lakos	128411	0.20 Each	2-3 weeks	$ 34.94/EA CAD
12 V SOLENOID VALVE	344B,01	Lakos	108131	0.20 Each	2-3 weeks	$ 194.06/EA CAD
MURPHY SWITCH	344B,01	Lakos	107833	0.20 Each	2-3 weeks	$ 388.13/EA CAD
SPIN CLEAN FILTER	344B,01	Lakos	123245	0.20 Each	2-3 weeks	$ 41.4/EA CAD
BACKWASH VALVE	344B,01	Lakos	108030	0.20 Each	2-3 weeks	$ 64.69/EA CAD
316SS Impeller	3444	TRU2O	TBA	0.25 Each	10-12 weeks	$ 2951.36/EA CAD
Shaft	3444	TRU2O	TBA	0.25 Each	10-12 weeks	$ 1702.71/EA CAD
Mechanical Seal	3444	TRU2O	TBA	0.25 Each	10-12 weeks	$ 3334.06/EA CAD
Bearing	3444	TRU2O	TBA	0.5 Each	10-12 weeks	$ 216.21/EA CAD
Shaft sleeve	3444	TRU2O	TBA	0.5 Each	10-12 weeks	$ 529.74/EA CAD
Wear ring	3444	TRU2O	TBA	0.5 Each	10-12 weeks	$ 421.62/EA CAD
Gasket	3444	TRU2O	TBA	1 Each	10-12 weeks	$ 162.16/EA CAD
O ring	3444	TRU2O	TBA	1 Each	10-12 weeks	$ 108.11/EA CAD
K12 Spare Seal	3444	National Pump Company	TBA	0.25 Each	8 Weeks	$ 6500.64/EA CAD
K12 Spare Wear Ring	3444	National Pump Company	TBA	0.25 Each	8 Weeks	$ 2818.89/EA CAD
K20 Spare Seal	3444	National Pump Company	TBA	0.25 Each	8 Weeks	$ 8911.35/EA CAD
K20 Spare Wear Ring	3444	National Pump Company	TBA	0.25 Each	8 Weeks	$ 10 002.54/EA CAD

OPERATING SPARES PRICE SCHEDULE

Oil Skimmers Rotator Products

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Hydro Tube (length 14.8m)		Oil Skimmer		0.3		$ 792.35/EA CAD
Hydro Tube (length 14.8m)		Oil Skimmer		0.3		$ 792.35/EA CAD

OPERATING SPARES PRICE SCHEDULE

Instrumentation PIC

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Complete RTD assembly for 14 inch pipe	P/N	M01- R2D8.5- SSX-T1(0- 50C)- TW(316)	Metalogic Technologies	Very Low	4	$ 453.10/EA CAD
Complete RTD assembly for 6 inch pipe	P/N	M01- R2D4.5- SSX-T1(0- 50C)- TW(316)	Metalogic Technologies	Very Low	4	$ 425.50/EA CAD
Complete RTD assembly for 4 inch pipe	P/N	M01- R2D4.5- SSX-T1(0- 50C)- TW(316)	Metalogic Technologies	Very Low	4	$ 425.50/EA CAD

OPERATING SPARES PRICE SCHEDULE

Mobile Pumping Filtering HydraFab

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
7 micron filter element to provide a Beta 5(c)=1000 rating.	3446-FR-5000	PALL	UE319AP20Z	24	6 weeks	$ 483.08/EA CAD
Water Removal Filter Element	3446-FR-5001	STAUFF	SP- 300EW10B	56	6 weeks	$ 1215.04/EA CAD
2`` HOSE ASSEMBLY 3M LONG NPT	N2490	ALGOOD	N2940	2	1 week	$ 805.00/EA CAD
2" VITON MAIN SEAL KIT FOR CPL AND ADP (REQUIRE 2 PER SET)		DRY LINK	K020250201	4	4 weeks	$ 818.80/EA CAD

Filtration General Filtration

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Automatic Strainer 2596						
Cover O-Ring	TBA	Eaton	TBA	8	3 to 4 weeks	$ 200.32/EA USD
Shaft seal replacement kit	TBA	Eaton	TBA	16	3 to 4 weeks	$ 556.45/EA USD
Drive Pin	TBA	Eaton	TBA	8	3 to 4 weeks	$ 103.87/EA USD
Shaft Bushing	TBA	Eaton	TBA	8	3 to 4 weeks	$ 1069.87/EA USD
Element	TBA	Eaton	TBA	4	6 to 8 weeks	$ 8152.38/EA USD
Simplex Strainer Model 73						
Basket 20 mesh	XST052160 M020SM	Eaton	XST052160M 020SM	4	4 to 6 weeks	$ 8987.95/EA USD
Gasket	ORS469B70	Eaton	ORS469B70	8	3 to 4 weeks	$ 128.80/EA USD
Y-strainer 1.5						
Screen	TBA	Eaton	TBA	7	3 to 4 weeks	$ 142.30/EA USD
Gasket	TBA	Eaton	TBA	14	3 to 4 weeks	$ 25.97/EA USD
Y-strainer 2.5						
Screen	TBA	Eaton	TBA	8	3 to 4 weeks	$ 183.85/EA USD
Gasket	TBA	Eaton	TBA	20	3 to 4 weeks	$ 30.12/EA USD
Screen 50 micron (325 mesh)	TBA	Eaton	TBA	2	3 to 4 weeks	$ 232.67/EA USD

OPERATING SPARES PRICE SCHEDULE

Filtration General Filtration

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price

Water Treatment Plant Natpro

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Service Water Pump 3449-P6000/6001 & 6002						
Seal Repair Kit		Aurora		One	4 - 6 Weeks	$ 5635.00/EA CAD
Overhaul Kit		Aurora		One	4 - 6 Weeks	$ 7705.00/EA CAD
Rotating Assembly		Auroa		-	TBA	$ 16 675.00/EA CAD
Grinder Submersible Pump 3353-P5000/5001						
Seals, Oring & Bearings		Hydromatic		1 per Pump	4 - 5 Weeks	$ 4600.00/EA CAD
Impellers		Hydromatic		1 per Pump	4 - 5 Weeks	$ 1828.50/EA CAD
Cutters (Radial & Stationary)		Hydromatic		1 per Pump	4 - 5 Weeks	$ 1966.50/EA CAD
Lubrification Water Pump 344B-P5000/5001						
Seal Kit		Aurora		1 per Pump	4-5 Weeks	$ 385.25/EA CAD
Gasket Kit		Aurora		1 per Pump	4-5 Weeks	$ 57.50/EA CAD
Stack Kt		Aurora		1 per Pump	4-5 Weeks	$ 1914.75/EA CAD
Dewatering Pump 3445-P5000/5001 & 5002						
Mechanical Seal, Rubber Line Shaft Bearings & Gaskets				1	4 - 5 Weeks	$ 5175.00/EA CAD

OPERATING SPARES PRICE SCHEDULE

Water Treatment Plant Natpro

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Water Treatment Plant Pump 3352-P6000/6001						
Seal Kit		Aurora		1 per Pump	4-5 Weeks	$ 385.25/EA CAD
Gasket Kit		Aurora		1 per Pump	4-5 Weeks	$ 57.50/EA CAD
Stack Kt		Aurora		1 per Pump	4-5 Weeks	$ 1914.75/EA CAD
Drainage Pump 3444-P5000/5001 & 5002						
Mechanical Seal, Rubber Line Shaft Bearings & Gaskets					4 - 5 Weeks	$ 5175.00/EA CAD

OPERATING SPARES PRICE SCHEDULE

Air Handling Units

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Motors						
1 HP		PF-SWSI		N/A	2 Weeks	514.15 ea
2 HP		PF-SWSI		N/A	2 Weeks	514.15 ea
3 HP		PF-SWSI		N/A	2 Weeks	734.5 ea
5 HP		PF-SWSI		N/A	2 Weeks	881.4 ea
7.5 HP		PF-SWSI		N/A	2 Weeks	1175.2 ea
10 HP		PF-SWSI		N/A	2 Weeks	1469 ea
15 HP		PF-SWSI		N/A	2 Weeks	1762.8 ea
Filters						
Merv 8 - AAF Perfect Pleat Ultra		PF-SWSI		N/A	2 Weeks	23.73 ea
Merv 14 - AAF Varicel VXL		PF-SWSI		N/A	2 Weeks	587.6 ea
VFD						
1 HP				N/A	2 Weeks	1322.1 ea
2 HP				N/A	2 Weeks	1322.1 ea
3 HP				N/A	2 Weeks	1469 ea
7.5 HP				N/A	2 Weeks	1762.8 ea
10 HP				N/A	2 Weeks	1909.7 ea
15 HP				N/A	2 Weeks	2203.5 ea
60 HP				N/A	2 Weeks	7345 ea
Duct Heaters						
Transformers		Neptronic	DP 10-9050	N/A	2 Weeks	37.29 ea
		Neptronic	DP 10-9051	N/A	2 Weeks	49.72 ea
Contactors		Neptronic	DP 11-6002	N/A	2 Weeks	42.94 ea
		Neptronic	DP 11-1003	N/A	2 Weeks	51.98 ea
		Neptronic	DP 11-1005	N/A	2 Weeks	98.31 ea
Solid State Relays		Neptronic	DW SSR50Y2	N/A	2 Weeks	427.14 ea
		Neptronic	DW SSR50Y1	N/A	2 Weeks	275.72 ea
		Neptronic	DW SSR25Y2	N/A	2 Weeks	397.76 ea
HEC Boards		Neptronic	NW HEC0000SS	N/A	2 Weeks	82.49 ea

Air Handling Units

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
		Neptronic	NW HEC0S02SS	N/A	2 Weeks	108.48 ea
Roof & Wall Exhaust Fans Motors						
1 HP		Greenheck		N/A	2 Weeks	791 ea
1.5 HP		Greenheck		N/A	2 Weeks	791 ea
5 HP		Greenheck		N/A	2 Weeks	2531.2 ea
15 HP		Greenheck		N/A	2 Weeks	2847.6 ea
3 HP		Greenheck		N/A	2 Weeks	1265.6 ea
0.5 HP		Greenheck		N/A	2 Weeks	632.8 ea
7.5 HP		Greenheck		N/A	2 Weeks	1740.2 ea
0.33 HP		Greenheck		N/A	2 Weeks	632.8 ea
0.25 HP		Greenheck		N/A	2 Weeks	632.8 ea
Humidifier						0 ea
Tank Gasket		Neptronic	SP 1021	N/A	2 Weeks	81.36 ea
10kW 600 volt heating element		Neptronic	SP 5939	N/A	2 Weeks	375.16 ea
High temperature switch		Neptronic	SP 3035	N/A	2 Weeks	57.63 ea
Water level sensor		Neptronic	SW SK300BPROBMED	N/A	2 Weeks	528.84 ea
Fill valve		Neptronic	SP 6007	N/A	2 Weeks	107.35 ea
Cooling fan		Neptronic	SP 3007	N/A	2 Weeks	108.48 ea
Contactor		Neptronic	SP 3100	N/A	2 Weeks	162.72 ea
Transformer 600/24vac 100VA		Neptronic	SP 3341	N/A	2 Weeks	144.64 ea
SSR 50 amps NW SK300BMAIN-TES Neptronic $324.00 ea NW SK300BMAIN-TES Neptronic $324.00 ea		Neptronic	SP 3102	N/A	2 Weeks	170.63 ea
Main pc board		Neptronic	NW SK300BMAIN-TES	N/A	2 Weeks	366.12 ea

OPERATING SPARES PRICE SCHEDULE

Air Handling Units

Description	Part No.	Manufacturer	Manuf. Part No.	Expected annual usage rate	Lead time for delivery (weeks)	Unit price
Drain pump		Neptronic	SP G4101	N/A	2 Weeks	194.36 ea
Temperature sensor for SSR		Neptronic	NP 242010001	N/A	2 Weeks	20.34 ea
Welding Exhaust						
Spark filter for metal hood		Nederman	10373118	N/A	2 Weeks	301.71 ea
Wear disc set		Nederman		N/A	2 Weeks	133.34 ea

APPENDIX I

ESTIMATED PLA LABOUR HOURS BY TRADE

ESTIMATED PLA LABOUR HOURS BY TRADE

Trade	Number of LOA Person-Days	Travel KMs	Regular Time Person-Hours	Overtime (1.5x) Person-Hours	Overtime (2.0x) Person-Hours	Second Shift Person-Hours	Third Shift Person-Hours	Travel Time Hours	Total Person-Hours
Electrical			74,672	37,336	18,668	39,033			169,709
Piping & Mechanical			29,655	14,827	7,414	15,501			67,398
Piping Insulation			6,019	3,010	1,505	3,146			13,680
Instrumentation			1,400	700	350	732			3,183
HVAC & Duct Installation			19,052	9,526	4,763	9,959			43,299
EMCS			5,068	2,534	1,267	2,649			11,519
Fire Protection			6,295	3,148	1,574	3,291			14,307
Architectural			48,898	24,449	12,225	25,560			111,132
Structural			655	328	164	343			1,489
Commissioning			7,867	3,933	1,967	4,112			17,879
Mob & Demob			3,767	1,883	942	1,969			8,560
Craft Support PLA Labour			108,479	54,239	27,120	56,705			246,543
*LOA = Living Out Allowance.		Total	311,827	155,913	77,957	163,000			708,698

APPENDIX J

MONTHLY PAYMENT FORECAST SCHEDULE

APPENDIX J

MONTHLY PAYMENT FORECAST SCHEDULE

MONTHLY PAYMENT RECAST SCHEDULE

Rev 1, 30-Jun-17

MONTH	1	2	3	4	5	6	7	8	9
Reimbursable Cost Labour	$ 181,543	$ 208,415	$ 201,697	$ 1,234,555	$ 2,357,560	$ 2,015,097	$ 2,372,246	$ 2,122,429	$ 2,900,315
Travel Allowances	$ -	$ 12,506	$ 14,357	$ 13,895	$ 85,047	$ 162,410	$ 138,818	$ 163,421	$ 146,212
Indirect Costs (General) PMT	$ -	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366
Mobilization	$ -	$ -	$ 162,571	$ 650,283	$ -	$ -	$ 270,951	$ -	$ -
Site Installation	$ -	$ -	$ -	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655
Demobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Design & Engineering	$ -	$ 116,354	$ -	$ -	$ -	$ -	$ 54,884	$ -	$ 61,470
Piping Mechanical - Supply & Installation	$ -	$ -	$ 535,343	$ 965,095	$ 374,566	$ 164,109	$ 1,847,633	$ 387,707	$ 1,104,284
HVAC System - Supply & Installtion	$ -	$ -	$ 29,734	$ 381,862	$ 808,807	$ 110,788	$ 284,921	$ 411,223	$ 262,182
Electrical - Design & Engineering	$ -	$ 127,653	$ -	$ -	$ -	$ -	$ 91,474	$ -	$ 36,180
Electrical - Supply and Installation	$ -	$ -	$ 2,143,250	$ 372,201	$ 1,021,641	$ 319,002	$ 1,035,226	$ 757,595	$ 412,899
Electrical -Free Issued Materials - Assembly & Installation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Architectural - Supply & Installation	$ -	$ -	$ 374,312	$ 30,147	$ 66,460	$ 560,221	$ 21,230	$ 2,536	$ 395,402
Diesel Generator System - Supply & Installation	$ -	$ -	$ 29,260	$ -	$ 44,499	$ -	$ -	$ -	$ -
Piping Mechanical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HVAC System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Diesel Generator System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INVOICE AMOUNT	**$ 181,543**	**$ 1,564,295**	**$ 4,589,890**	**$ 4,861,058**	**$ 5,971,601**	**$ 4,544,647**	**$ 7,330,403**	**$ 5,057,931**	**$ 6,531,963**
Mechanics Lien Holdback	**$ (18,154)**	**$ (156,429)**	**$ (458,989)**	**$ (485,508)**	**$ (596,562)**	**$ (453,867)**	**$ (732,442)**	**$ (505,195)**	**$ (652,598)**
Letter of Credit - Work - Agreement Article 7.1(a)	**$ 2,697,438**								
Letter of Credit - Warranty Period - Agreement Article 7.1(b)									
TOTAL INVOICE AMOUNT	**$ 2,860,827**	**$ 1,407,865**	**$ 4,130,901**	**$ 4,375,551**	**$ 5,375,039**	**$ 4,090,781**	**$ 6,597,961**	**$ 4,552,736**	**$ 5,879,365**

**Preliminary Estimate. Subject to change based on final payment terms, cash flow assumptions and detailed construction schedule and execution plan

MONTHLY PAYMENT RECAST SCHEDULE

Rev 1, 30-Jun-17

MONTH	10	11	12	13	14	15	16	17	18
Reimbursable Cost Labour	$ 3,303,709	$ 3,488,377	$ 3,209,188	$ 4,063,471	$ 3,915,987	$ 4,797,768	$ 5,382,393	$ 5,038,523	$ 4,325,631
Travel Allowances	$ 199,799	$ 227,589	$ 240,310	$ 221,077	$ 279,928	$ 269,768	$ 330,513	$ 370,787	$ 347,098
Indirect Costs (General) PMT	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366
Mobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Site Installation	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655
Demobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Design & Engineering	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Supply & Installation	$ 882,843	$ 717,360	$ 1,428,538	$ 1,386,248	$ 1,532,016	$ 352,074	$ 791,437	$ 1,239,286	$ 989,937
HVAC System - Supply & Installtion	$ 228,770	$ 187,671	$ 633,855	$ 256,187	$ 2,621,468	$ 982,541	$ 405,670	$ 1,383,103	$ 823,470
Electrical - Design & Engineering	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical - Supply and Installation	$ 1,253,310	$ 1,433,348	$ 713,090	$ 283,714	$ 1,920,376	$ 2,939,815	$ 744,696	$ 2,618,135	$ 643,159
Electrical -Free Issued Materials - Assembly & Installation	$ -	$ -	$ 48,999	$ 79,081	$ 123,540	$ 161,873	$ 161,873	$ 161,873	$ 161,873
Architectural - Supply & Installation	$ 30,667	$ 164,126	$ 58,628	$ 80,915	$ 108,913	$ 268,679	$ 54,057	$ 402,846	$ 172,733
Diesel Generator System - Supply & Installation	$ -	$ 12,293	$ 279,289	$ 12,293	$ 12,293	$ 56,792	$ 56,792	$ 175,558	$ -
Piping Mechanical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 32,878
HVAC System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,261
Electrical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 167,062
Diesel Generator System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 23,241
INVOICE AMOUNT	**$ 7,112,118**	**$ 7,443,783**	**$ 7,824,917**	**$ 7,596,007**	**$ 11,727,542**	**$ 11,042,330**	**$ 9,140,450**	**$ 12,603,131**	**$ 8,912,362**
Mechanics Lien Holdback	**$ (710,614)**	**$ (743,780)**	**$ (781,894)**	**$ (759,003)**	**$ (1,172,156)**	**$ (1,103,635)**	**$ (913,447)**	**$ (1,259,715)**	**$ (890,638)**
Letter of Credit - Work - Agreement Article 7.1(a)									
Letter of Credit - Warranty Period - Agreement Article 7.1(b)									
TOTAL INVOICE AMOUNT	**$ 6,401,505**	**$ 6,700,003**	**$ 7,043,024**	**$ 6,837,005**	**$ 10,555,386**	**$ 9,938,695**	**$ 8,227,004**	**$ 11,343,416**	**$ 8,021,724**

**Preliminary Estimate. Subject to change based or

MONTHLY PAYMENT RECAST SCHEDULE

Rev 1, 30-Jun-17

MONTH	19	20	21	22	23	24	25	26	27
Reimbursable Cost Labour	$ 4,627,317	$ 3,754,129	$ 2,242,729	$ 1,756,062	$ 1,904,015	$ 860,533	$ 348,556	$ 150,765	$ 162,326
Travel Allowances	$ 297,988	$ 318,771	$ 258,618	$ 154,499	$ 120,973	$ 131,165	$ 59,281	$ 24,012	$ 10,386
Indirect Costs (General) PMT	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366	$ 1,099,366
Mobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Site Installation	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655
Demobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Design & Engineering	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Supply & Installation	$ 725,856	$ 1,844,450	$ 467,107	$ 198,051	$ 255,342	$ 398,322	$ 45,910	$ 158,251	$ 1,493,392
HVAC System - Supply & Installtion	$ 1,064,910	$ 437,217	$ 529,156	$ 237,099	$ 354,718	$ 352,931	$ 10,180	$ -	$ 738,972
Electrical - Design & Engineering	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical - Supply and Installation	$ 1,436,765	$ 886,980	$ 298,862	$ 233,162	$ 495,082	$ 152,771	$ 10,061	$ 234,808	$ 2,074,666
Electrical -Free Issued Materials - Assembly & Installation	$ 189,479	$ 148,839	$ 93,625	$ 75,151	$ 94,616	$ 45,069	$ 64,534	$ 25,604	$ 45,069
Architectural - Supply & Installation	$ 51,951	$ 268,652	$ 399,949	$ 39,275	$ 189,284	$ 344,929	$ -	$ 93,885	$ 310,269
Diesel Generator System - Supply & Installation	$ 29,260	$ 29,260	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Single Contractor Dynamic Commissioning	$ 32,878	$ 32,878	$ 32,878	$ 32,878	$ 32,878	$ 32,878	$ 32,878	$ 32,878	$ -
HVAC System - Single Contractor Dynamic Commissioning	$ 12,261	$ 12,261	$ 12,261	$ 12,261	$ 12,261	$ 12,261	$ 12,261	$ 12,261	$ -
Electrical - Single Contractor Dynamic Commissioning	$ 167,062	$ 167,062	$ 167,062	$ 167,062	$ 167,062	$ 167,062	$ 167,062	$ 167,062	$ -
Diesel Generator System - Single Contractor Dynamic Commissioning	$ 23,241	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INVOICE AMOUNT	**$ 9,871,988**	**$ 9,113,519**	**$ 5,715,266**	**$ 4,118,520**	**$ 4,839,251**	**$ 3,710,942**	**$ 1,963,743**	**$ 2,112,547**	**$ 6,048,101**
Mechanics Lien Holdback	**$ (986,601)**	**$ (910,754)**	**$ (570,928)**	**$ (411,254)**	**$ (483,327)**	**$ (370,496)**	**$ (195,776)**	**$ (210,657)**	**$ (604,212)**
Letter of Credit - Work - Agreement Article 7.1(a)									
Letter of Credit - Warranty Period - Agreement Article 7.1(b)									
TOTAL INVOICE AMOUNT	**$ 8,885,387**	**$ 8,202,765**	**$ 5,144,337**	**$ 3,707,266**	**$ 4,355,924**	**$ 3,340,446**	**$ 1,767,967**	**$ 1,901,891**	**$ 5,443,889**

**Preliminary Estimate. Subject to change based or

MONTHLY PAYMEN RECAST SCHEDULE

Rev 1, 30-Jun-17

MONTH	28	29	30	31	32	33	34	35	36	37
Reimbursable Cost Labour	$ 85,460	$ -	$ 290,906	$ 1,973,851	$ 1,598,423	$ 424,798	$ 392,927	$ 208,728	$ -	$ 302,468
Travel Allowances	$ 11,182	$ 5,887	$ -	$ 20,040	$ 135,976	$ 110,114	$ 29,264	$ 27,068	$ 14,379	$ -
Indirect Costs (General) PMT	$ 1,099,366	$ 1,099,366	$ 342,025	$ 342,025	$ 342,025	$ 342,025	$ 342,025	$ 342,025	$ 342,025	$ 342,025
Mobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Site Installation	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655	$ 113,655
Demobilization	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Design & Engineering	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Supply & Installation	$ 1,365,259	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HVAC System - Supply & Installtion	$ 738,972	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical - Design & Engineering	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical - Supply and Installation	$ 2,074,666	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical -Free Issued Materials - Assembly & Installation	$ 38,930	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Architectural - Supply & Installation	$ 216,384	$ -	$ 16,687	$ 113,222	$ 91,687	$ 24,367	$ 22,539	$ 11,973	$ -	$ -
Diesel Generator System - Supply & Installation	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Piping Mechanical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HVAC System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Diesel Generator System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
INVOICE AMOUNT	**$ 5,743,873**	**$ 1,218,907**	**$ 763,272**	**$ 2,562,793**	**$ 2,281,766**	**$ 1,014,958**	**$ 900,409**	**$ 703,448**	**$ 470,058**	**$ 758,147**
Mechanics Lien Holdback	**$ (573,789)**	**$ (121,293)**	**$ (75,729)**	**$ (255,681)**	**$ (227,578)**	**$ (100,898)**	**$ (89,443)**	**$ (69,747)**	**$ (46,408)**	**$ (75,217)**
Letter of Credit - Work - Agreement Article 7.1(a)										
Letter of Credit - Warranty Period - Agreement Article 7.1(b)									$ 851,822	
TOTAL INVOICE AMOUNT	**$ 5,170,084**	**$ 1,097,615**	**$ 687,543**	**$ 2,307,112**	**$ 2,054,187**	**$ 914,061**	**$ 810,966**	**$ 633,702**	**$ 1,275,473**	**$ 682,931**

**Preliminary Estimate. Subject to change based or

MONTHLY PAYMENT RECAST SCHEDULE

Rev 1, 30-Jun-17

MONTH	38	39	40		Total
Reimbursable Cost Labour	$ 27,497	$ -	$ -		$ 72,230,394
Travel Allowances	$ 20,837	$ 1,894	$ -		$ 4,975,871
Indirect Costs (General) PMT	$ 342,025	$ 342,025	$ -		$ 34,202,484
Mobilization	$ -	$ -	$ -		$ 1,083,805
Site Installation	$ 113,655	$ 113,655	$ -	0.00	$ 4,091,565
Demobilization	$ -	$ 384,818	$ -		$ 384,818
Piping Mechanical - Design & Engineering	$ -	$ -	$ -		$ 232,709
Piping Mechanical - Supply & Installation	$ -	$ -	$ -		$ 21,650,417
HVAC System - Supply & Installtion	$ -	$ -	$ -		$ 14,276,404
Electrical - Design & Engineering	$ -	$ -	$ -		$ 255,307
Electrical - Supply and Installation	$ -	$ -	$ -		$ 26,509,281
Electrical -Free Issued Materials - Assembly & Installation	$ -	$ -	$ -		$ 1,720,027
Architectural - Supply & Installation	$ -	$ -	$ -		$ 4,986,925
Diesel Generator System - Supply & Installation	$ -	$ -	$ -		$ 737,589
Piping Mechanical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -		$ 295,901
HVAC System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -		$ 110,351
Electrical - Single Contractor Dynamic Commissioning	$ -	$ -	$ -		$ 1,503,558
Diesel Generator System - Single Contractor Dynamic Commissioning	$ -	$ -	$ -		$ 46,481
INVOICE AMOUNT	**$ 504,013**	**$ 842,392**	**$ -**		**$ 189,293,888**
Mechanics Lien Holdback	$ (49,803)	$ (83,641)	$ 18,907,854		$ -
Letter of Credit - Work - Agreement Article 7.1(a)					$ 2,697,438
Letter of Credit - Warranty Period - Agreement Article 7.1(b)					$ 851,822
TOTAL INVOICE AMOUNT	**$ 454,210**	**$ 758,751**	**$ 18,907,854**		**$ 192,843,148**

**Preliminary Estimate. Subject to change based o