



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 547-2014

SUPPLY OF ELECTRICAL COMPONENTS

TABLE OF CONTENTS

PART A - BID SUBMISSION

Form A: Bid	1
Form B: Prices	3

PART B - BIDDING PROCEDURES

B1. Contract Title	1
B2. Submission Deadline	1
B3. Enquiries	1
B4. Confidentiality	1
B5. Addenda	1
B6. Substitutes	2
B7. Bid Submission	3
B8. Bid	3
B9. Prices	4
B10. Qualification	5
B11. Opening of Bids and Release of Information	5
B12. Irrevocable Bid	6
B13. Withdrawal of Bids	6
B14. Evaluation of Bids	6
B15. Award of Contract	7

PART C - GENERAL CONDITIONS

C0. General Conditions	1
------------------------	---

PART D - SUPPLEMENTAL CONDITIONS

General

D1. General Conditions	1
D2. Scope of Work	1
D3. Contract Administrator	1
D4. Ownership of Information, Confidentiality and Non Disclosure	1
D5. Notices	1

Submissions

D6. Authority to Carry on Business	1
------------------------------------	---

Schedule of Work

D7. Commencement	2
D8. Pick Up	2

Measurement and Payment

D9. Invoices	2
D10. Payment	3
D11. Purchasing Card	3
D12. Payment Schedule	3

Warranty

D13. Warranty	3
---------------	---

PART E - SPECIFICATIONS

General

E1. Applicable Specifications and Drawings	1
E2. Goods	1
E3. Manufacturers' Installation and Operation Manuals	7
E4. Labeling of Goods	7

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SUPPLY OF ELECTRICAL COMPONENTS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, February 2, 2015.

B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. ENQUIRIES

B3.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.

B3.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B3.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.

B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B3.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B3.6 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

B4. CONFIDENTIALITY

B4.1 Information provided to a Bidder by the City or acquired by a Bidder by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:

- (a) was known to the Bidder before receipt hereof; or
- (b) becomes publicly known other than through the Bidder; or
- (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.

B4.2 The Bidder shall not make any statement of fact or opinion regarding any aspect of the Bid Opportunity to the media or any member of the public without the prior written authorization of the Contract Administrator.

B5. ADDENDA

B5.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.

- B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>
- B5.2.2 The Bidder is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B6. SUBSTITUTES

- B6.1 The Work is based on the materials, equipment, methods and products specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the material, equipment, method or product as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.

- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.
- B6.9 No later claim by the Contractor for an addition to the price(s) because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.7, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B14.1(a).

B7. BID SUBMISSION

- B7.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
 - (b) Form B: Prices.
- B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.
- B7.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely in ink, to constitute a responsive Bid.
- B7.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B7.5 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Division
185 King Street, Main Floor
Winnipeg MB R3B 1J1
- B7.5.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B7.6 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.7 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B14.1(a).
- B7.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to 204- 949-1178.
- B7.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B7.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B8. BID

- B8.1 The Bidder shall complete Form A: Bid, making all required entries.

- B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his/her own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
 - (d) if the Bidder is carrying on business under a name other than his/her own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B8.4.2 All signatures shall be original.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.
- B9. PRICES**
- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 Prices on Form B: Prices shall include:
- (a) duty;
 - (b) freight and cartage;
 - (c) Provincial and Federal taxes [except the Goods and Services Tax (GST) and Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable] and all charges governmental or otherwise paid;
 - (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B10. QUALIFICATION

B10.1 The Bidder shall:

- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; and
- (b) be financially capable of carrying out the terms of the Contract; and
- (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.

B10.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>

B10.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) have successfully carried out work similar in nature, scope and value to the Work; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);

B10.4 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B10.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B11. OPENING OF BIDS AND RELEASE OF INFORMATION

B11.1 Bids will not be opened publicly.

B11.2 Following the Submission Deadline, the names of the Bidders and their bid prices (unevaluated, and pending review and verification of conformance with requirements or evaluated prices) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>

B11.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>

B11.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B12. IRREVOCABLE BID

- B12.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.
- B12.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 of Form A: Bid.

B13. WITHDRAWAL OF BIDS

- B13.1 A Bidder may withdraw his/her Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B13.1.1 Notwithstanding C21, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B13.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B13.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
 - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B13.1.3(b), declare the Bid withdrawn.
- B13.2 A Bidder who withdraws his/her Bid after the Submission Deadline but before his/her Bid has been released or has lapsed as provided for in B12.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B14. EVALUATION OF BIDS

- B14.1 Award of the Contract shall be based on the following bid evaluation criteria:
- (a) compliance by the Bidder with the requirements of the Bid Opportunity, or acceptable deviation therefrom (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
 - (c) Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B6;
 - (e) costs to the City of administering multiple contracts.
- B14.2 Further to B14.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.
- B14.3 Further to B14.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his/her Bid or in other information required to be submitted, that he/she is responsible and qualified.
- B14.4 Further to B14.1(c), the Total Bid Price shall be the lump sum price shown on Form B: Prices.

- B14.5 This Contract may be awarded as a whole (Alternative 1) or separately in sections (Alternative 2) as identified on Form B: Prices.
- B14.5.1 Notwithstanding B9.1, the Bidder may, but is not required to, bid on both alternatives, or on any one or more sections in Alternative 2.
- B14.5.2 Notwithstanding B15.3, the City shall not be obligated to award any section to the responsible Bidder submitting the lowest evaluated responsive Bid for that section and shall have the right to choose the alternative which is in its best interests. If the Bidder has not bid on both alternatives or on all sections in Alternative 2, he/she shall have no claim against the City if his/her partial Bid is rejected in favour of an award of the Contract on the basis of an alternative or section upon which he/she has not bid.

B15. AWARD OF CONTRACT

- B15.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B15.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B15.2.1 Without limiting the generality of B15.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
 - (b) the prices are materially in excess of the prices received for similar work in the past;
 - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
 - (d) only one Bid is received; or
 - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B15.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B14.
- B15.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.
- B15.4 Notwithstanding C4 and Paragraph 6 of Form A:Bid, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B15.5 The Contract Documents, as defined in C1.1(n)(ii) in their entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that they are not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for the Supply of Goods* (Revision 2008 05 26) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for the Supply of Goods* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/gen_cond.stm
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Goods*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for the Supply of Goods*, these Supplemental Conditions are applicable to the Work of the Contract.

D2. SCOPE OF WORK

D2.1 The Work to be done under the Contract shall consist of Supply of Electrical Components. Installation of the components will be done by City staff.

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is:
Raymund Tabing, C.E.T.
Technologist
Telephone No.: 204- 986-7645
Facsimile No.: 204- 986-5345

D4. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

D4.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.

D4.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.

D4.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;

- (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
- (b) the Contract, all deliverables produced or developed; and
- (c) any statement of fact or opinion regarding any aspect of the Contract.

D4.4 A Contractor who violates any provision of D4 may be determined to be in breach of Contract.

D5. NOTICES

D5.1 Notwithstanding C21.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg
Chief Financial Officer
Facsimile No.: 204- 949-1174

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

D6.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly

registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

SCHEDULE OF WORK

D7. COMMENCEMENT

- D7.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D7.2 The Contractor shall not commence any Work until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D6;
 - (ii) evidence of the workers compensation coverage specified in C6.16;
 - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D8. PICK UP

- D8.1 The Goods shall be available for pick up from the Contractor's location(s).
- D8.2 The Contractor shall operate at least one (1) facility within the boundaries of the City of Winnipeg at which City staff may pick up the Goods.
- (a) The facility shall, as a minimum, be in operation at all times between 8:30 a.m. and 4:00 p.m. on Business Days.
- D8.3 The Contractor shall inform the Contract Administrator within two (2) Business days when the Goods are available for pick up.
- (a) The Contractor shall provide storage of the Goods at their facility, for at least seven (7) Business Days to allow the City to arrange pick up.
 - (i) The Goods are to be stored safely and in a suitable environment.
 - (ii) The Contractor assumes all financial costs associated with Goods missing or damaged before pick up.
- D8.4 The Goods shall be ready within thirty (30) Business days of placing an order, except where otherwise agreed at the time of ordering.
- D8.5 The Contractor shall load the Goods onto City vehicles or equipment as required by City staff.

MEASUREMENT AND PAYMENT

D9. INVOICES

- D9.1 Further to C10, the Contractor shall submit an invoice for each order delivered to:
- The City of Winnipeg
Corporate Finance - Accounts Payable
4th Floor, Administration Building, 510 Main Street
Winnipeg MB R3B 1B9
- Facsimile No.: 204- 949-0864
Email: CityWpgAP@winnipeg.ca
- D9.2 Invoices must clearly indicate, as a minimum:
- (a) the City's purchase order number;

- (b) date of pick up;
- (c) pick up address;
- (d) type and quantity of goods;
- (e) the amount payable with GST, MRST, and any applicable environmental handling charges/fees identified and shown as separate amounts; and
- (f) the Contractor's GST registration number.

D9.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D9.4 Bids Submissions must be submitted to the address in B7.5.

D10. PAYMENT

D10.1 Further to C10, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

D11. PURCHASING CARD

D11.1 The Contractor shall allow Users to charge items to their purchasing cards at no extra cost.

D11.2 The Contractor's credit card website/gateway shall have appropriate current Payment Card Industry Data Security standards (PCI DSS) certification, (<https://www.pcisecuritystandards.org/index.shtml>). The credit card gateway shall meet the credit card data security requirements outlined by the Payment Card Industry Security Standards Council (PCI SSC) for service providers and/or software vendors.

D12. PAYMENT SCHEDULE

D12.1 Further to C10, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.

WARRANTY

D13. WARRANTY

D13.1 Warranty is as stated in C11.

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

E1.1 These Specifications shall apply to the Work.

E2. GOODS

E2.1 The Contractor shall supply electrical goods for water infrastructure facilities in accordance with the requirements hereinafter specified.

E2.2 Item No. 1: Panelboard, 120/208V, 800A, 3 ph, 4 Wire shall be as follows:

- (a) References:
 - (i) CSA C22.2 No.29, Panelboards and Enclosed Panelboards.
 - (b) Electrical Rating:
 - (i) 120/208V, 3 phase, 4 wire, 800 Amp, 60 Hz
 - (c) Short Circuit Current Rating (SCCR):
 - (i) At 240 VAC: 25 kA (symmetrical), fully rated.
 - (i) Use of external current limiting device or series ratings to achieve specified SCCR is not acceptable.
 - (ii) In addition to CSA requirements, manufacturer's nameplate must show fault current that panel including breakers has been built to withstand.
 - (d) Buswork:
 - (i) Rating: 800 A
 - (i) Neutral bus of same ampere rating as mains.
 - (ii) Material: Copper, tin plated.
 - (e) Main Breaker:
 - (i) Trip unit:
 - (i) Type: Electronic, LI (Long-Instantaneous)
 - (ii) Sensor Rating: 600 Amps
 - (iii) Long-time Pickup: Adjustable from 200 Amps to 600 Amps.
 - (iv) Long-time Delay: Adjustable from 0.5 to 16 seconds.
 - (v) Instantaneous: Adjustable from 1.5 to 11 x Sensor Rating
 - (ii) Poles: 3
 - (iii) SCCR @ 240 VAC: 25 kA minimum.
 - (iv) Location: top of panel (suitable for top entry).
 - (v) Backfed main breaker is not acceptable.
 - (vi) Line-side lugs: Suitable for 750 kcmil copper conductors.
 - (vii) Manufacturer and model:
 - (i) Schneider Electric PowerPact L with Micrologic 3.3 trip unit.
 - (f) Branch Circuit Breakers:
 - (i) 125 Amp
 - (i) Quantity: 3
 - (ii) Trip Unit:
 - (i) Type: Thermal-Magnetic.
 - (ii) Trip: 125 Amps.
- (b) Poles: 3

- (c) SCCR @ 240 VAC: 25 kA minimum.
 - (i) Use of external current limiting device or series ratings to achieve specified SCCR is not acceptable.
- (d) Load-side lugs: Suitable for 1 AWG copper conductors
- (e) Manufacturer and model:
 - (i) Schneider Electric PowerPact HD.
- (g) 225 Amp
 - (a) Quantity: 2
 - (b) Trip Unit:
 - (i) Type: Thermal-Magnetic.
 - (ii) Trip: 225 Amps.
 - (iii) Adjustable Instantaneous (INST) setting: 5-10 x Trip.
 - (c) Poles: 3
 - (d) SCCR @ 240 VAC: 25 kA minimum.
 - (i) Use of external current limiting device or series ratings to achieve specified SCCR is not acceptable.
 - (e) Load-side lugs: Suitable for 4/0 AWG copper conductors
 - (f) Manufacturer and model:
 - (i) Schneider Electric PowerPact JD series.
- (h) Enclosure:
 - (i) Finish: baked grey enamel.
 - (ii) NEMA rating: Type 1.
 - (iii) Mounting: Surface, wall mount.
 - (iv) Width, maximum: 813 mm (32")
 - (v) Height, maximum: 1854 mm (73")
 - (vi) Total branch breaker mounting space: 1600 mm (63")
- (i) Approvals: CSA or equivalent.
- (j) Manufacturer and model:
 - (i) Schneider Electric I-Line Type HCM.

E2.3 Item No. 2: MCC Circuit Breaker Branch Feeder Unit shall be as follows:

- (a) Circuit breaker branch feeder unit for installation into existing MCC.
- (b) Existing MCC details:
 - (i) Make and model: Schneider Electric Square D Model 6,
 - (ii) Factory order number: 54-4953801-A,
 - (iii) Electrical data: 600V, 3 ph, 3 wire, 60 Hz, 22 kA SCCR,
 - (iv) Horizontal bus: 600 A, tin plated copper,
 - (v) Vertical bus: 300 A, tin plated copper,
 - (vi) Vertical structure width: 508 mm (20") with vertical side wireway,
 - (vii) Vertical structure depth: 508 mm (20").
- (c) General requirements:
 - (i) Approvals / certifications: CSA or cUL
- (d) Quantity: 2
 - (i) Unit number 1 nameplate:
 - (i) Line 1 text: ENGINE SHED
 - (ii) Line 2 text: PL-49
 - (iii) Colour: White text on black background.

- (ii) Unit number 2 nameplate:
 - (i) Line 1 text: ELECTRICAL ROOM
 - (ii) Line 2 text: 150 KVA TRANSFORMER
 - (iii) Line 3 text: TF-1
 - (iv) Colour: White text on black background
- (e) Unit requirements:
 - (i) Height: 381 mm (15")
 - (ii) Width: Suitable for installation into 508 mm (20") vertical section having a 102 mm (4") vertical side wireway.
 - (iii) NEMA rating: Type 1A (gasketed).
 - (iv) Wiring class: NEMA Class 1, Type A.
 - (v) Grounding: securely grounded to structure through ground stab.
 - (vi) Finish:
 - (i) Exterior: #49 medium light grey.
 - (ii) Interior: Gloss white.
 - (vii) Manufacturer and model:
 - (i) Schneider Electric Square D Model 6 series.
- (f) Circuit Breaker requirements:
 - (i) Operation: Circuit breaker operable via front handle without opening unit door.
 - (ii) Trip Unit:
 - (i) Type: Electronic, LSIG
 - (ii) Sensor Rating: 250 Amp Rating
 - (iii) Long Time Pickup: Adjustable from 70 to 250 Amps
 - (iv) Long Time Delay: Adjustable from 0.5 to 16 sec
 - (v) Short Time Pickup: Adjustable from 1.5 to 10 x Long Time Pickup
 - (vi) Short Time Delay: Adjustable from 0 to 0.4 sec
 - (vii) Instantaneous: Adjustable from 1.5 to 12 x Sensor Rating
 - (viii) Ground Fault Pickup: Adjustable from 0.2 to 1 x Sensor Rating
 - (ix) Ground Fault Delay: Adjustable from 0 to 0.4 sec
 - (iii) Interrupting rating: 25 kA at 600 VAC minimum
 - (i) Use of external current limiting device or series ratings to achieve specified interrupting rating is not acceptable.
 - (iv) Alarm switch: Dry-contact for indicating circuit breaker has tripped due to an overload, short circuit, ground fault, operation of the shunt trip, or the "push-to-test" button.
 - (v) Manufacturer and model:
 - (i) Schneider Electric Square D PowerPact JJ series with Micrologic 6.2A trip unit.

E2.4 Item No. 3: Branch Circuit Breaker with Ground Fault Module shall be as follows:

- (a) Branch circuit breaker, complete with ground fault module, for installation into existing panelboard.
- (b) Existing panelboard details:
 - (i) Make and model: Schneider Electric Square D I-Line.
 - (ii) Electrical data: 600V, 1200 A, 3 ph, 3 wire, 60 Hz
 - (iii) Short circuit bracing: 50 kA
 - (iv) NEMA rating: Type 1
- (c) Circuit Breaker:
 - (i) Trip Unit:
 - (i) Type: Thermal Magnetic

- (ii) Trip: 250 Amps
- (iii) Adjustable instantaneous (INST) setting: 5-10 x Trip
- (ii) Interrupting rating: 25 kA at 600 VAC minimum.
 - (i) Use of external current limiting device or series ratings to achieve specified interrupting rating is not acceptable.
- (iii) Shunt Trip: 12 VDC ground-fault shunt trip compatible with GFM250 ground fault module.
- (iv) Line-side connection: Suitable for connection to I-Line Panelboard.
- (v) Load-side connection: Suitable for connection to GFM250 ground fault module.
- (vi) Make and model:
 - (i) Schneider Electric Square D JJ series.
- (d) Ground Fault Module:
 - (i) Rating: 250 Amps
 - (ii) Pickup: Adjustable to 40, 80, 120, 160, and 200 Amps.
 - (iii) Time delay: Adjustable to 0.2, 0.3, 0.4, and 0.6 sec (approximate).
 - (iv) Instantaneous trip: 1200 Amps
 - (v) Line-side connection: Suitable for connection to circuit breaker.
 - (vi) Load-side connection: Lugs suitable for 250 kcmil copper conductors.
 - (vii) Make and model:
 - (i) Schneider Electric Square D GFM250.

E2.5 Item No. 4: Enclosed Circuit Breaker, 700A shall be as follows:

- (a) Enclosure:
 - (i) Mounting: Surface.
 - (ii) Finish: baked grey enamel.
 - (iii) NEMA rating: Type 1.
 - (iv) Dimensions: 1026 x 533 x 248 mm (H x W x D) maximum
 - (v) Manufacturer and model:
 - (i) Schneider Electric M800S.
- (b) Circuit Breaker:
 - (i) Trip Unit:
 - (i) Type: Electronic (fixed trip).
 - (ii) Trip: 700 Amps.
 - (iii) Adjustable instantaneous (INST) setting: 2-10 x Trip
 - (ii) Poles: 3
 - (iii) Interrupting rating: 65 kA at 240 VAC
 - (i) Use of external current limiting device or series ratings to achieve specified interrupting rating is not acceptable.
 - (iv) Line-side lugs: Suitable for 2x500 kcmil copper conductors per phase.
 - (v) Load-side lugs: Suitable for 2x500 kcmil copper conductors per phase.
 - (vi) Manufacturer and model:
 - (i) Schneider Electric PowerPact MGL series with ET1.0 trip unit.
- (c) Insulated Neutral Assembly:
 - (i) Rating: 800 Amps.
 - (ii) Lugs: Suitable for 2x500 kcmil copper conductors per phase.
 - (iii) Manufacturer and model:
 - (i) Schneider Electric AL800SN.
- (d) Equipment Ground Kit:

- (i) Lugs: Suitable for 1/0 AWG copper conductors.
 - (ii) Manufacturer and model:
 - (i) Schneider Electric PK0GTA4.
 - (e) Operation:
 - (i) Circuit breaker operable from the front of the enclosure without opening the enclosure.
 - (f) Approvals: CSA or equivalent.
- E2.6 Item No. 5: Molded Case Circuit Breaker, 50A (Schneider Electric) shall be as follows:
 - (a) Molded case circuit breaker to replace main breaker in existing panelboard.
 - (b) Existing panelboard details:
 - (i) Make and model: Schneider Electric Square D NQOD
 - (ii) Electrical data: 120/208V, 100A, 3 ph, 4 wire, 60 Hz
 - (c) Requirements:
 - (i) Poles: 3
 - (ii) Type: Thermal magnetic
 - (iii) Trip: 50 Amps
 - (iv) Approvals: CSA or equivalent
 - (v) Manufacturer and model:
 - (i) Schneider Electric Square D QOB series.
- E2.7 Item No. 6: Fuses, 40A, Class H, Type D shall be as follows:
 - (a) Requirements:
 - (i) Rating: 40 Amps
 - (ii) Voltage rating: 600 VAC
 - (iii) Type: Class H, Type D
 - (iv) Approvals: CSA or equivalent.
 - (v) Manufacturer and model:
 - (i) Ferraz Shawmut CRS40.
- E2.8 Item No. 7: Fuses, 50A, Class H, Type D shall be as follows:
 - (a) Requirements:
 - (i) Rating: 50 Amps
 - (ii) Voltage rating: 600 VAC
 - (iii) Type: Class H, Type D
 - (iv) Approvals: CSA or equivalent.
 - (v) Manufacturer and model:
 - (i) Ferraz Shawmut CRS50.
- E2.9 Item No. 8: Fuses, 50E, E-Rated shall be as follows:
 - (a) Requirements:
 - (i) Rating: 50E
 - (ii) Type: E-Rated
 - (iii) Voltage rating: 5.5 kV
 - (iv) Interrupting rating: 63 kA RMS symmetrical
 - (v) Barrel diameter: 76.2 mm (3").
 - (vi) Approvals: CSA or equivalent.
 - (vii) Manufacturer and model:
 - (i) Ferraz Shawmut A055F1D0R0-50E.

- E2.10 Item No. 9: Molded Case Circuit Breaker, 125A shall be as follows:
- (a) Branch circuit breaker for installation into existing panelboard.
 - (b) Existing panelboard details:
 - (i) Make and model: Siemens ITE CDP-7.
 - (ii) Electrical data: 347/600V, 400 A, 3 ph, 4 wire, 60 Hz
 - (iii) NEMA rating: Type 1
 - (c) Circuit Breaker:
 - (i) Poles: 3
 - (ii) Trip Unit:
 - (i) Type: Thermal magnetic
 - (ii) Trip: 125 Amps
 - (iii) Interrupting rating: 18 kA at 600 VAC
 - (i) Use of external current limiting device or series ratings to achieve specified interrupting rating is not acceptable.
 - (iv) Line-side connection: suitable for connection to existing panelboard.
 - (v) Load-side connection: lugs suitable for 1/0 AWG copper conductors.
 - (vi) Approvals: CSA or equivalent.
 - (vii) Manufacturer and model:
 - (i) Siemens Sentron ED6 series.
- E2.11 Item No. 10: Molded Case Circuit Breaker, 50A (Eaton) shall be as follows:
- (a) Molded case circuit breaker to replace main breaker in existing panelboard.
 - (b) Existing panelboard details:
 - (i) Make and model: Eaton Cutler-Hammer PL-1.
 - (ii) Electrical data: 120/208V, 100A, 3 ph, 4 wire, 60 Hz.
 - (iii) Main breaker located in branch circuit positions 2, 4, and 6.
 - (c) Requirements:
 - (i) Poles: 3
 - (ii) Type: Thermal magnetic.
 - (iii) Trip: 50A
 - (iv) Approvals: CSA or equivalent.
 - (v) Manufacturer and model:
 - (i) Eaton Cutler-Hammer BAB series.
- E2.12 Item No. 11: Molded Case Circuit Breaker, 200A shall be as follows:
- (a) Molded case circuit breaker to replace main breaker in existing panelboard.
 - (b) Existing panelboard details:
 - (i) Make and model: Eaton Pow-R-Line C PRL3a.
 - (ii) Electrical data: 347/600V, 225 A, 3 ph, 4 wire, 60 Hz.
 - (iii) NEMA rating: Type 1.
 - (c) Circuit Breaker:
 - (i) Poles: 3
 - (ii) Trip Unit:
 - (i) Type: Thermal magnetic
 - (ii) Trip: 200 Amps
 - (iii) Adjustable instantaneous (INST) setting: 5-10 x Trip
 - (iii) Interrupting rating: 18 kA at 600 VAC

- (i) Use of external current limiting device or series ratings to achieve specified interrupting rating is not acceptable.
- (iv) Line-side connection: suitable for 2/0 AWG copper conductors.
- (v) Load-side connection: suitable for connection to panelboard bus.
- (vi) Approvals: CSA or equivalent.
- (vii) Manufacturer and model:
 - (i) Eaton Cutler Hammer JD series.

E2.13 Item No. 12: Fuses, 150E, E-Rated shall be as follows:

- (a) Requirements:
 - (i) Rating: 150E
 - (ii) Voltage rating: 8.3 kV
 - (iii) Type: E-Rated
 - (iv) Suppressor: Not required – existing discharge filter will be re-used.
 - (v) Approvals: CSA or equivalent.
 - (vi) Manufacturer and model:
 - (i) Eaton Cutler-Hammer RBA-400 series 8RBT4-150E.

E3. MANUFACTURERS' INSTALLATION AND OPERATION MANUALS

E3.1 For each item, the Contractor shall provide manufacturers' installation, operation and maintenance manuals at the time of pick up. The Contract shall not be considered complete until all manuals have been received.

- (a) All instructions in these manuals shall be in the English language in order to guide the City in the proper installation, operation and maintenance of the equipment.
- (b) Documents should be in original electronic format.
- (c) Where documents are provided in an electronic format:
 - (i) Documents shall be provided in Microsoft Word or Adobe PDF format.
 - (ii) Drawings, scanned manuals, parts lists and test forms shall be provided in only Adobe PDF format.
 - (iii) Scanned manuals shall be high quality scans and fully legible.
 - (iv) Documents shall be submitted on high quality compact disks. The compact disk and case shall be labeled in type, with the following:
 - ◆ Bid opportunity number;
 - ◆ Job Title;
 - ◆ Description of Equipment.

E3.2 The Contract Administrator shall advise the Contractor not later than ten (10) Business Days after pick up of goods should he require any modifications or supplements to the manuals

E3.3 Upon said requested modified or supplements to the manuals, the Contractor shall provide these to the Contract Administrator as specified in E3.1 not later than ten (10) Business Days after the request is made.

E3.4 The Contract shall not be considered complete nor payment made, until the above manuals have been submitted to the satisfaction of the Contract Administrator.

E4. LABELING OF GOODS

E4.1 The Contractor shall clearly label each item in accordance with E4.2

- (a) Labeling shall be on product packaging only;

- (b) Labeling shall not overwrite manufacturer written instructions or specifications included on packaging.

E4.2

Item No.	Item Description	Label	Part No.
1	Panelboard, 120/208V, 800A, 3 ph, 4 Wire	Shoal Lake	CSA C22.2 No.29, Panelboards and Enclosed Panelboards.
4	Enclosed Circuit Breaker, 700A	Shoal Lake	Schneider Electric M800S
2	MCC Circuit Breaker Branch Feeder Unit (Unit #1)	Shoal Lake	Schneider Electric Square D Model 6,
2	MCC Circuit Breaker Branch Feeder Unit (Unit #2)	Shoal Lake	Schneider Electric Square D Model 6
3	Branch Circuit Breaker with Ground Fault Module	Shoal Lake	Schneider Electric Square D I-Line
6	Fuses, 40A, Class H, Type D	Tache	Ferraz Shawmut CRS40
7	Fuses, 50A, Class H, Type D	Tache	Ferraz Shawmut CRS50
9	Molded Case Circuit Breaker, 125A	Hurst	Siemens ITE CDP-7
12	Fuses, 150E, E-Rated	Deacon	Eaton Cutler-Hammer RBA-400 series 8RBT4-150E
11	Molded Case Circuit Breaker, 200A	Deacon	Eaton Pow-R-Line C PRL3a
8	Fuses, 50E, E-Rated	Deacon	Ferraz Shawmut A055F1D0R0-50E
10	Molded Case Circuit Breaker, 50A (Eaton)	Deacon	Eaton Cutler-Hammer PL-1
5	Molded Case Circuit Breaker, 50A (Schneider Electric)	Deacon	Schneider Electric Square D NQOD